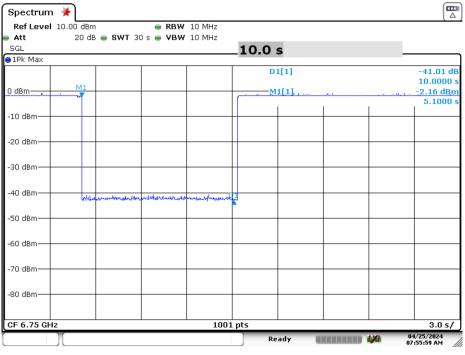


Date: 25.APR.2024 07:53:49



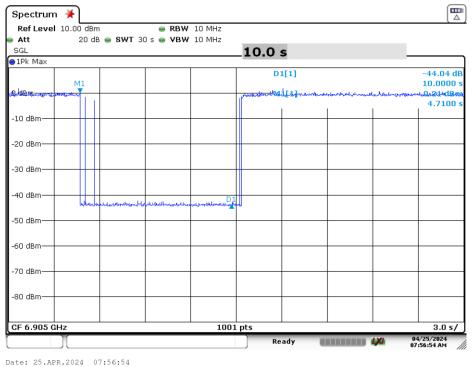


Date: 25.APR.2024 07:55:59

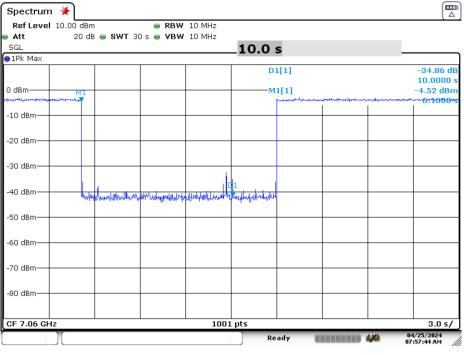
Plot 7-363. Contention Based Protocol Timing Plot (320MHz (UNII Band 8) - Ch. 191 Low)

FCC ID: A3LNP940XMA		MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	EUT Type:	Page 234 of 261				
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Page 234 01 261				
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Date: 25.APR.2024 07:57:44

Plot 7-365. Contention Based Protocol Timing Plot (320MHz (UNII Band 8) - Ch. 191 High)

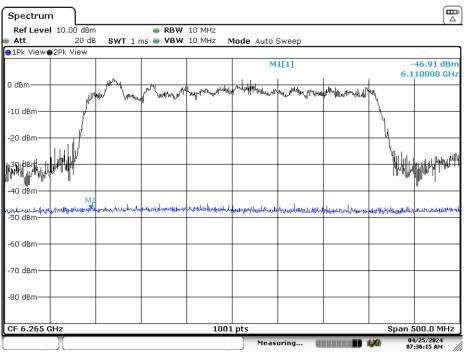
FCC ID: A3LNP940XMA		MEASUREMENT REPORT						
Test Report S/N:	Test Dates:	EUT Type:	Page 235 of 261					
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Fage 255 01 201					
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7.6.3 Channel Move Plots

This section demonstrates the effect of injecting the AWGN signal at various locations throughout the 320MHz signal. The black trace shows the full 320MHz signal prior to AWGN injection while the blue trace shows the spectrum following AWGN injection. The following items were observed as demonstrated in the three plots shown below:

- When a 10 MHz AWGN signal centered at 6110 MHz (lower edge of channel) is injected, the channel completely stops transmitting.
- When a 10 MHz AWGN signal centered at 6265 MHz (middle of channel) is injected, the channel completely stops transmitting.
- When a 10 MHz AWGN signal centered at 6420 MHz (upper edge of channel) is injected, the channel reduces its bandwidth down to 160MHz operation at the lower end of the channel.

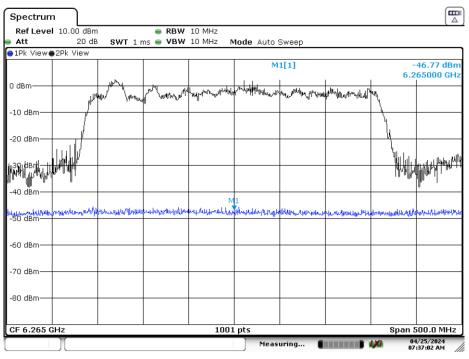


Date: 25.APR.2024 07:36:15

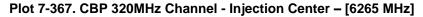
Plot 7-366. CBP 320MHz Channel - Injection Lower Edge – [6110 MHz]

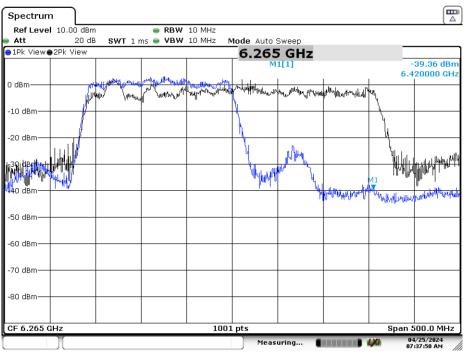
FCC ID: A3LNP940XMA		MEASUREMENT REPORT	Approved by: Technical Manager			
Test Report S/N:	Test Dates:	Fest Dates: EUT Type:				
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Page 236 of 261			
© 2024 ELEMENT			V 9 0 02/01/2019			





Date: 25.APR.2024 07:37:01





Date: 25.APR.2024 07:37:50

Plot 7-368. CBP 320MHz Channel - Injection Upper Edge – [6420 MHz]

FCC ID: A3LNP940XMA		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 237 of 261
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Fage 237 01 201
© 2024 ELEMENT		·	V 9.0 02/01/2019



7.7 Radiated Emission Measurements

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013, and at the appropriate frequencies. All channels, modes (e.g. 802.11ax (20/40/80/160MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of −27 dBm/MHz

Emissions found in a restricted band are subject to the limits of 15.209 as shown in the table below.

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-23. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 - Sections 12.7.7.2, 12.7.6, 12.7.5

Test Settings – Above 1GHz

Average Field Strength Measurements (Method AD – Average Detection)

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest.
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = power average (RMS)
- 5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span}$)
- 6. Sweep time = auto
- 7. Trace (RMS) averaging was performed over at least 100 traces.

FCC ID: A3LNP940XMA		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 238 of 261
1M2403190019-10.A3L	03/14/2024 – 04/25/2024 Portable Computing Device		Fage 236 01 201
© 2024 ELEMENT		· · ·	V 9.0 02/01/2019



Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest.
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize.

Test Settings - Below 1GHz

Quasi-Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest.
- 2. RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize.

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

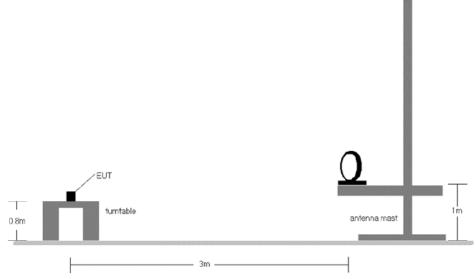
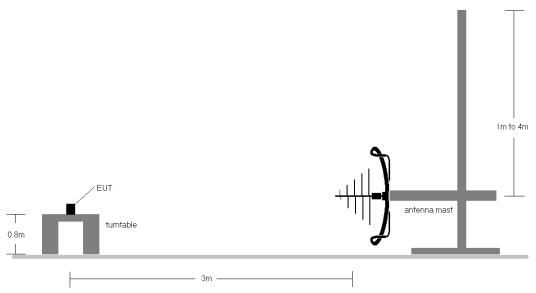
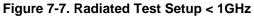


Figure 7-6. Radiated Test Setup < 30MHz

FCC ID: A3LNP940XMA		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 239 of 261
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Fage 239 01 201
© 2024 ELEMENT			V 9.0 02/01/2019







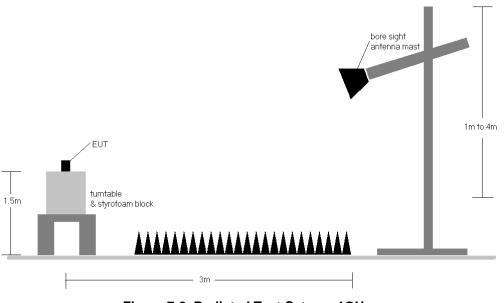


Figure 7-8. Radiated Test Setup > 1GHz

FCC ID: A3LNP940XMA		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	Page 240 of 261	
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Page 240 01 201
© 2024 ELEMENT		· · ·	V 9.0 02/01/2019



Test Notes

- All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in §15.209. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At 3 meters, the field strength limit in dBµV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBµV/m.
- All spurious emissions that do not lie in a restricted band are subject to a peak limit not to exceed 20dB of the average limit [68.2dBµV/m]. If a peak measurement passes the average limit, it was determined no further investigation is necessary.
- 3. The antenna is manipulated through typical positions, polarity, and length during the tests. The EUT is manipulated through three orthogonal planes.
- 4. This unit was tested with its standard battery.
- 5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported, however emissions whose levels were not within 20dB of the respective limits were not reported.
- 6. Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
- 7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
- 8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 9. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

Sample Calculations

Determining Spurious Emissions Levels

- ο Field Strength Level [dBµV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level $[dB\mu V/m]$ Limit $[dB\mu V/m]$

Radiated Band Edge Measurement Offset

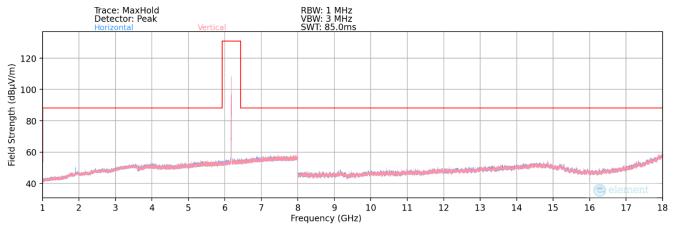
The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

FCC ID: A3LNP940XMA		MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	Page 241 of 261					
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	03/14/2024 – 04/25/2024 Portable Computing Device					
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7.7.1 MIMO Radiated Spurious Emission Measurements (26 Tones)



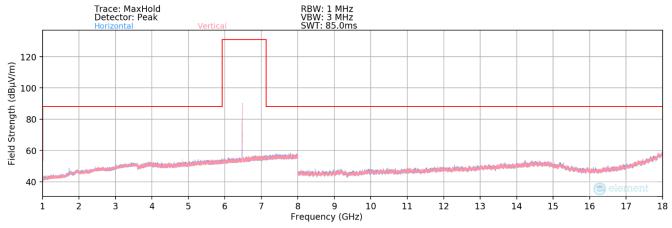
Plot 7-369. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11be – UNII Band 5 Ch. 45) – SP

Mode	Antenna	UNII Band	Channel	Channel	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Azimuth	Analyzer Level [dBm]	AFCL [dB/m]	Correction Eactor [dB]	Strength	Limit [dBµV/m]	Margin [dB]
						*	11870.00	Average	Н	-	-	-77.90	9.05	0.00	38.15	53.98	-15.83
						*	11870.00	Peak	Н	-	-	-65.40	9.05	0.00	50.65	73.98	-23.33
						*	17805.00	Average	Н	-	-	-76.62	15.50	0.00	45.88	53.98	-8.10
			2	5935	4	*	17805.00	Peak	н	-	-	-64.93	15.50	0.00	57.57	73.98	-16.41
						*	23740.00	Average	н	-	-	-65.19	3.58	-9.54	35.85	53.98	-18.13
						*	23740.00	Peak	н	-	-	-57.43	3.58	-9.54	43.61	73.98	-30.37
							29675.00	Peak	н	-	-	-56.13	5.33	-9.54	46.66	68.20	-21.54
						*	12350.00	Average	Н	-	-	-77.82	9.39	0.00	38.57	53.98	-15.41
802.11be	мімо	5				*	12350.00	Peak	н	-	-	-65.65	9.39	0.00	50.74	73.98	-23.24
RU 26T	WINO	5	45	6175	4	*	18525.00	Average	н	-	-	-64.53	1.16	-9.54	34.09	53.98	-19.89
			45	01/5	4	*	18525.00	Peak	н	-	-	-56.16	1.16	-9.54	42.47	73.98	-31.51
							24700.00	Peak	Н		-	-56.75	3.72	-9.54	44.42	68.20	-23.78
							30875.00	Peak	Н	-	-	-56.80	6.32	-9.54	46.99	68.20	-21.21
							12830.00	Peak	Н	-	-	-65.87	9.93	0.00	51.06	68.20	-17.14
						*	19245.00	Average	н	-	-	-65.18	1.84	-9.54	34.12	53.98	-19.86
			93	6415	4	*	19245.00	Peak	Н		-	-56.20	1.84	-9.54	43.10	73.98	-30.88
							25660.00	Peak	Н		-	-56.22	3.90	-9.54	45.14	68.20	-23.06
						32075.00	Peak	Н		-	-57.91	6.64	-9.54	46.19	68.20	-22.01	

Table 7-24. Radiated Measurements MIMO (26 Tones) - SP

FCC ID: A3LNP940XMA		MEASUREMENT REPORT	Approved by: Technical Manager			
Test Report S/N:	Test Dates:	EUT Type:	Page 242 of 261			
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	03/14/2024 – 04/25/2024 Portable Computing Device				
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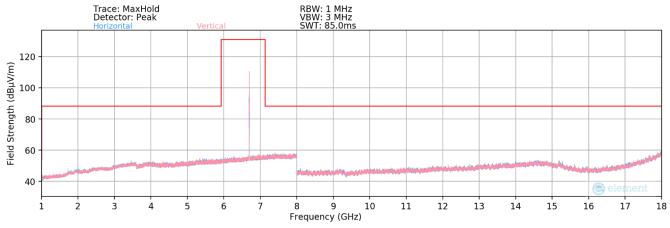
Plot 7-370. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11be – UNII Band 6 Ch. 105) – LPI

Mode	Antenna	UNII Band	Channel	Channel	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Azimuth	Analyzer Level [dBm]	AFCL [dB/m]	Correction	Strength	Limit [dBµV/m]	Margin [dB]
							12870.00	Peak	н	-	-	-66.18	10.09	0.00	50.91	68.20	-17.29
						*	19305.00	Average	н		-	-64.69	1.64	-9.54	34.42	53.98	-19.56
			97	6435	4	*	19305.00	Peak	н	-	-	-55.63	1.64	-9.54	43.48	73.98	-30.50
							25740.00	Peak	н	-	-	-56.41	3.84	-9.54	44.89	68.20	-23.31
							32175.00	Peak	н	-	-	-56.53	6.80	-9.54	47.72	68.20	-20.48
							12950.00	Peak	н	-	-	-65.89	10.25	0.00	51.36	68.20	-16.84
				6475		*	19425.00	Average	н	-	-	-65.93	1.80	-9.54	33.33	53.98	-20.65
802.11be RU 26T	MIMO	6	105		4	*	19425.00	Peak	н	-	-	-55.26	1.80	-9.54	44.00	73.98	-29.98
110 201							25900.00	Peak	н	-	-	-56.35	4.24	-9.54	45.34	68.20	-22.86
							32375.00	Peak	н	-	-	-57.08	6.46	-9.54	46.83	68.20	-21.37
							13030.00	Peak	н	-	-	-65.26	10.42	0.00	52.16	68.20	-16.04
						*	19545.00	Average	н	-	-	-64.66	1.84	-9.54	34.64	53.98	-19.33
			113	6515	4	*	19545.00	Peak	н	-	-	-56.33	1.84	-9.54	42.97	73.98	-31.01
							26060.00	Peak	н	-	-	-56.88	4.18	-9.54	44.77	68.20	-23.43
							32575.00	Peak	н	-	-	-57.17	6.18	-9.54	46.47	68.20	-21.73

Table 7-25. Radiated Measurements MIMO (26 Tones) – LPI

FCC ID: A3LNP940XMA		MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	EUT Type:	Page 242 of 261				
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Page 243 of 261				
© 2024 ELEMENT			V 9.0 02/01/2019				





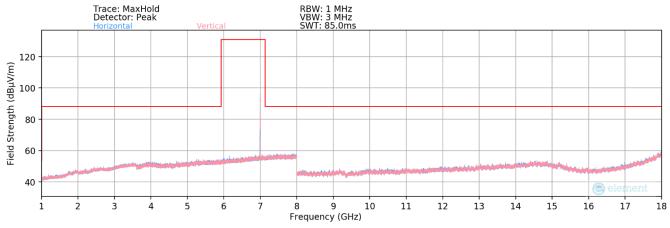


Mode	Antenna	UNII Band	Channel	Channel	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Azimuth	Analyzer Level [dBm]	AFCL [dB/m]	Correction	Strength	Limit [dBµV/m]	Margin [dB]
							13070.00	Peak	н	-	-	-66.23	10.39	0.00	51.16	68.20	-17.04
						*	19605.00	Average	н	-	-	-64.40	2.38	-9.54	35.44	53.98	-18.54
			117	6535	4	*	19605.00	Peak	н	-	-	-55.58	2.38	-9.54	44.26	73.98	-29.72
							26140.00	Peak	н	-	-	-57.20	4.03	-9.54	44.28	68.20	-23.92
							32675.00	Peak	н	-	-	-57.12	6.46	-9.54	46.79	68.20	-21.41
						*	13390.00	Average	н	-	-	-77.95	10.80	0.00	39.85	53.98	-14.13
						*	13390.00	Peak	н	-	-	-65.85	10.80	0.00	51.95	73.98	-22.03
802.11be	мімо	7	149	6695	4	*	20085.00	Average	н	-	-	-64.69	-0.48	-9.54	32.29	53.98	-21.69
RU 26T	WINNO	,	149	0095	4	*	20085.00	Peak	н	-	-	-55.17	2.58	-9.54	44.87	73.98	-29.11
							26780.00	Peak	н	-	-	-57.16	2.58	-9.54	42.88	68.20	-25.32
							33475.00	Peak	н	-	-	-57.26	4.33	-9.54	44.53	68.20	-23.67
							13750.00	Peak	н	-	-	-66.83	11.44	0.00	51.61	68.20	-16.59
						*	20625.00	Average	н	-	-	-64.97	3.01	-9.54	35.49	53.98	-18.49
			185	6875	4	*	20625.00	Peak	н	-	-	-56.95	3.01	-9.54	43.52	73.98	-30.46
							27500.00	Peak	н	-	-	-54.50	3.97	-9.54	46.93	68.20	-21.27
							34375.00	Peak	н	-	-	-56.21	7.33	-9.54	48.58	68.20	-19.62

Table 7-26. Radiated Measurements MIMO (26 Tones) – SP

FCC ID: A3LNP940XMA		MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	EUT Type:	Page 244 of 261				
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Fage 244 01 201				
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Plot 7-372. Radiated Spurious Plot 1GHz - 18GHz MIMO (802.11be - U Band 8 Ch. 209) - LPI

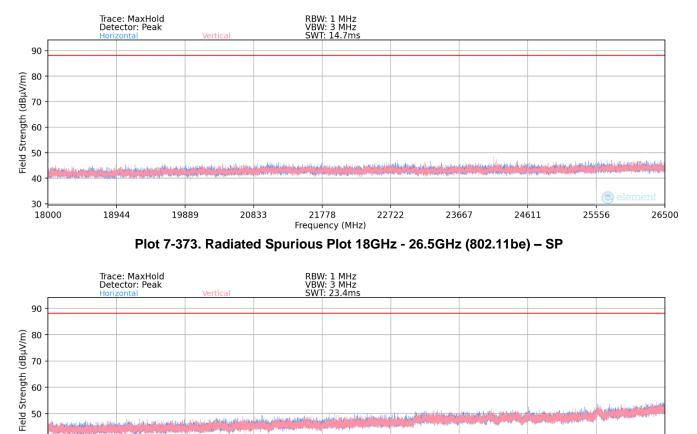
Mode	Antenna	UNII Band	Channel	Channel	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Azimuth	Analyzer Level [dBm]	AFCL [dB/m]	Correction	Strength	Limit [dBµV/m]	Margin [dB]
							13790.00	Peak	Н	-	-	-65.70	11.16	0.00	52.46	68.20	-15.74
						*	20685.00	Average	Н	-	-	-63.10	3.01	-9.54	37.37	53.98	-16.61
			189	6895	4	*	20685.00	Peak	Н	-	-	-56.58	3.01	-9.54	43.89	73.98	-30.09
							27580.00	Peak	Н	-	-	-57.08	4.40	-9.54	44.79	68.20	-23.41
							34475.00	Peak	Н	-	-	-56.28	7.31	-9.54	48.49	68.20	-19.71
							13990.00	Peak	Н	-	-	-64.93	11.29	0.00	53.36	68.20	-14.84
						*	20985.00	Average	Н	-	-	-64.58	3.27	-9.54	36.15	53.98	-17.83
802.11be RU 26T	MIMO	8	209	6995	4	*	20985.00	Peak	Н	-	-	-56.55	3.27	-9.54	44.18	73.98	-29.80
110 201							27980.00	Peak	Н	-	-	-57.41	4.40	-9.54	44.45	68.20	-23.75
							34975.00	Peak	Н	-	-	-56.93	7.79	-9.54	48.31	68.20	-19.89
							14230.00	Peak	Н	-	-	-65.86	11.94	0.00	53.08	68.20	-15.12
						*	21345.00	Average	н	-	-	-64.54	3.57	-9.54	36.49	53.98	-17.49
			233	7115	4	*	21345.00	Peak	Н	-	-	-56.87	3.57	-9.54	44.16	73.98	-29.82
							28460.00	Peak	Н	-	-	-56.94	5.01	-9.54	45.53	68.20	-22.67
							35575.00	Peak	н	-	-	-57.17	7.78	-9.54	48.07	68.20	-20.13

Table 7-27. Radiated Measurements MIMO (26 Tones) – LPI

FCC ID: A3LNP940XMA		MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	EUT Type:	Page 245 of 261				
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Page 245 01 261				
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Frequency (MHz) Plot 7-374. Radiated Spurious Plot 26.5GHz - 40GHz (802.11be) - SP

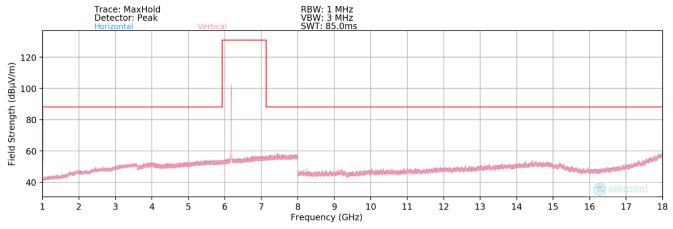


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FCC ID: A3LNP940XMA		MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	EUT Type:	Dage 246 of 264				
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Page 246 of 261				
© 2024 ELEMENT	·		V 9.0 02/01/2019				



7.7.2 MIMO Radiated Spurious Emission Measurements (242 Tones)



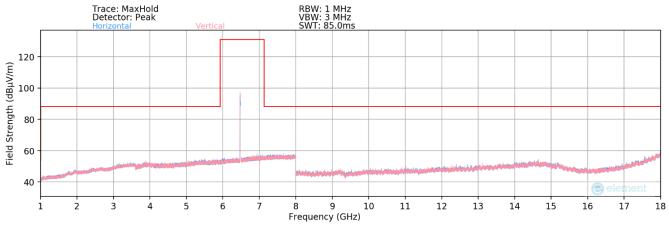
Plot 7-375. Radiated Spurious Plot 1GHz - 18GHz MIMO (802.11be - UNII Band 5 Ch. 45) - SP

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
						*	11870.00	Average	Н	-	-	-77.69	9.05	0.00	38.36	53.98	-15.62
						*	11870.00	Peak	Н	-	-	-65.86	9.05	0.00	50.19	73.98	-23.79
						*	17805.00	Average	н	-	-	-76.82	15.50	0.00	45.68	53.98	-8.30
			2	5935	61	*	17805.00	Peak	Н	-	-	-65.07	15.50	0.00	57.43	73.98	-16.55
						*	23740.00	Average	Н	-	-	-65.82	3.58	-9.54	35.22	53.98	-18.76
						*	23740.00	Peak	Н	-	-	-56.18	3.58	-9.54	44.86	73.98	-29.12
							29675.00	Peak	Н	-	-	-57.67	5.33	-9.54	45.11	68.20	-23.09
						*	12350.00	Average	н	-	-	-77.84	9.39	0.00	38.55	53.98	-15.43
802.11be	мімо	5				*	12350.00	Peak	Н	-	-	-65.80	9.39	0.00	50.59	73.98	-23.39
RU 242T	WINNO	5	45	6175	61	*	18525.00	Average	н	-	-	-63.61	1.16	-9.54	35.01	53.98	-18.97
			45	01/5	01	*	18525.00	Peak	н	-	-	-56.39	1.16	-9.54	42.23	73.98	-31.75
							24700.00	Peak	н	-	-	-56.40	3.72	-9.54	44.77	68.20	-23.43
							30875.00	Peak	Н	-	-	-57.08	6.32	-9.54	46.70	68.20	-21.50
							12830.00	Peak	Н	-	-	-66.33	9.93	0.00	50.60	68.20	-17.60
						*	19245.00	Average	Н	-	-	-65.42	1.84	-9.54	33.88	53.98	-20.10
			93	6415	61	*	19245.00	Peak	Н	-	-	-56.65	1.84	-9.54	42.65	73.98	-31.33
							25660.00	Peak	н	-	-	-56.96	3.90	-9.54	44.40	68.20	-23.80
							32075.00	Peak	Н	-	-	-56.27	6.64	-9.54	47.83	68.20	-20.37

Table 7-28. Radiated Measurements MIMO (242 Tones) - SP

FCC ID: A3LNP940XMA		MEASUREMENT REPORT						
Test Report S/N:	Test Dates:	EUT Type:	Page 247 of 261					
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Fage 247 01 201					
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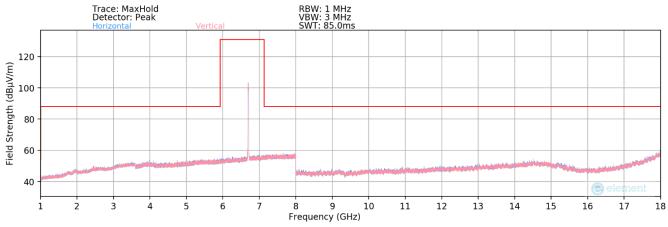
Plot 7-376. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11be – UNII Band 6 Ch. 105) – LPI

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
							12870.00	Peak	Н	-	-	-66.58	10.09	0.00	50.51	68.20	-17.69
						*	19305.00	Average	н	-	-	-65.64	1.64	-9.54	33.47	53.98	-20.51
			97	6435	61	*	19305.00	Peak	н	-	-	-56.94	1.64	-9.54	42.17	73.98	-31.81
							25740.00	Peak	Н	-	-	-55.90	3.84	-9.54	45.41	68.20	-22.79
							32175.00	Peak	Н	-	-	-58.47	6.80	-9.54	45.78	68.20	-22.42
							12950.00	Peak	н	-	-	-65.63	10.25	0.00	51.62	68.20	-16.58
						*	19425.00	Average	н	-	-	-64.68	1.80	-9.54	34.58	53.98	-19.40
802.11be RU 242T	MIMO	6	105	6475	61	*	19425.00	Peak	н	-	-	-55.80	1.80	-9.54	43.46	73.98	-30.52
							25900.00	Peak	н	-	-	-56.74	4.24	-9.54	44.96	68.20	-23.24
							32375.00	Peak	Н	-	-	-56.39	6.46	-9.54	47.52	68.20	-20.68
							13030.00	Peak	н	-	-	-65.52	10.42	0.00	51.90	68.20	-16.30
						*	19545.00	Average	н	-	-	-63.51	1.84	-9.54	35.79	53.98	-18.19
			113	6515	61	*	19545.00	Peak	Н	-	-	-55.84	1.84	-9.54	43.46	73.98	-30.52
							26060.00	Peak	Н	-	-	-57.35	4.18	-9.54	44.29	68.20	-23.91
							32575.00	Peak	н	-	-	-57.62	6.18	-9.54	46.02	68.20	-22.18

Table 7-29. Radiated Measurements MIMO (242 Tones) – LPI

FCC ID: A3LNP940XMA		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 248 of 261
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Page 248 01 261
© 2024 ELEMENT			V 9.0 02/01/2019





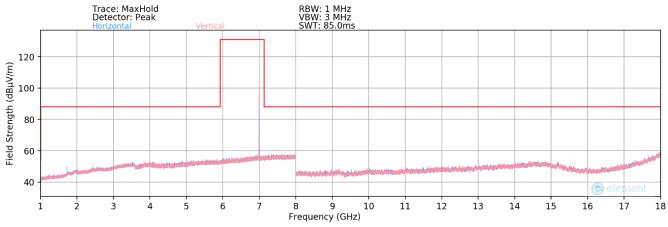
Plot 7-377. Radiated Spurious Plot 1GHz - 18GHz MIMO (802.11be - UNII Band 7 Ch. 149) - SP

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin (dB)
							13070.00	Peak	Н	-	-	-66.69	10.39	0.00	50.70	68.20	-17.50
						*	19605.00	Average	Н	-	-	-64.71	2.38	-9.54	35.13	53.98	-18.85
			117	6535	61	*	19605.00	Peak	Н	-	-	-56.48	2.38	-9.54	43.36	73.98	-30.62
							26140.00	Peak	Н	-	-	-57.33	4.03	-9.54	44.16	68.20	-24.04
							32675.00	Peak	Н	-	-	-58.37	6.46	-9.54	45.54	68.20	-22.66
						*	13390.00	Average	Н	-	-	-77.98	10.80	0.00	39.82	53.98	-14.16
						*	13390.00	Peak	Н	-	-	-65.72	10.80	0.00	52.08	73.98	-21.90
802.11be	мімо	7	149	6695	61	*	20085.00	Peak	Н	-	-	-64.72	-0.48	-9.54	32.26	53.98	-21.72
RU 242T	WINO	'	149	0095	01	*	20085.00	Average	Н	-	-	-56.27	2.58	-9.54	43.77	73.98	-30.21
							26780.00	Peak	Н	-	-	-56.66	2.58	-9.54	43.38	68.20	-24.82
							33475.00	Peak	Н	-	-	-56.94	4.33	-9.54	44.85	68.20	-23.35
							13750.00	Peak	Н	-	-	-66.38	11.44	0.00	52.06	68.20	-16.14
						*	20625.00	Average	Н	-	-	-60.58	3.01	-9.54	39.88	53.98	-14.10
			185	6875	61	*	20625.00	Peak	Н	-	-	-55.28	3.01	-9.54	45.19	73.98	-28.79
							27500.00	Peak	Н	-	-	-56.08	3.97	-9.54	45.35	68.20	-22.85
							34375.00	Peak	Н	-	-	-57.51	7.33	-9.54	47.28	68.20	-20.92

Table 7-30. Radiated Measurements MIMO (242 Tones) - SP

FCC ID: A3LNP940XMA		MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	EUT Type:	Dage 240 of 261				
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Page 249 of 261				
© 2024 ELEMENT	·		V 9.0 02/01/2019				





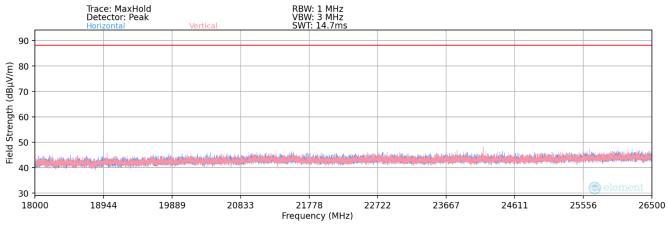
Plot 7-378. Radiated Spurious Plot 1GHz - 18GHz MIMO (802.11be - U Band 8 Ch. 209) - LPI

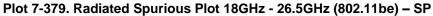
Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
							13790.00	Peak	Н	-	-	-65.29	11.16	0.00	52.87	68.20	-15.33
						*	20685.00	Average	Н	-	-	-65.76	3.01	-9.54	34.71	53.98	-19.27
			189	6895	61	*	20685.00	Peak	Н	-	-	-56.61	3.01	-9.54	43.87	73.98	-30.11
							27580.00	Peak	Н	-	-	-57.24	4.40	-9.54	44.63	68.20	-23.57
							34475.00	Peak	Н	-	-	-56.70	7.31	-9.54	48.07	68.20	-20.13
	802.11be RU 242T MIMO 8					13990.00	Peak	Н	-	-	-65.16	11.29	0.00	53.13	68.20	-15.07	
				209 6995	5 61	*	20985.00	Average	Н	-	-	-65.75	3.27	-9.54	34.98	53.98	-19.00
802.11be RU 242T		8	209			*	20985.00	Peak	Н	-	-	-57.17	3.27	-9.54	43.55	73.98	-30.43
							27980.00	Peak	Н	-	-	-56.57	4.40	-9.54	45.29	68.20	-22.91
							34975.00	Peak	Н	-	-	-56.98	7.79	-9.54	48.27	68.20	-19.93
							14230.00	Peak	Н	-	-	-65.84	11.94	0.00	53.10	68.20	-15.10
						*	21345.00	Average	Н	-	-	-65.45	3.57	-9.54	35.58	53.98	-18.40
			233	233 7115	7115 61	*	21345.00	Peak	Н	-	-	-55.65	3.57	-9.54	45.38	73.98	-28.60
							28460.00	Peak	Н	-	-	-57.27	5.01	-9.54	45.20	68.20	-23.00
							35575.00	Peak	Н	-	-	-56.85	7.78	-9.54	48.39	68.20	-19.81

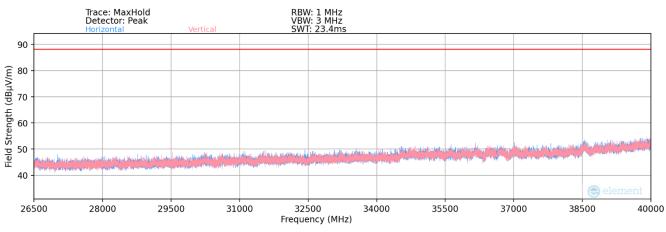
Table 7-31. Radiated Measurements MIMO (242 Tones) - LPI

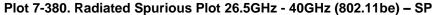
FCC ID: A3LNP940XMA		MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Page 250 of 261	
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Page 250 of 261	
© 2024 ELEMENT			V 9.0 02/01/2019	







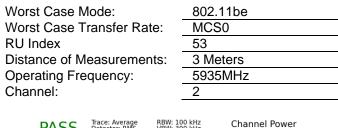


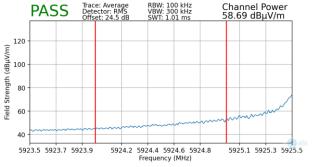


FCC ID: A3LNP940XMA		MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Page 251 of 261	
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Fage 251 01 261	
© 2024 ELEMENT	·		V 9.0 02/01/2019	

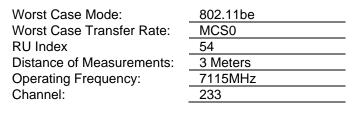


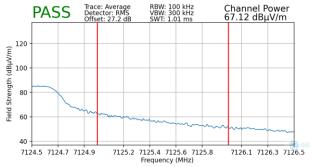
7.7.3 MIMO Radiated Band Edge Measurements (20MHz BW – Partial Tone – 106T)



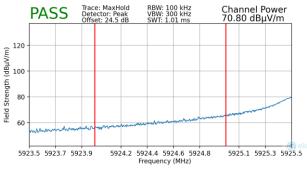


Plot 7-381. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 106T)

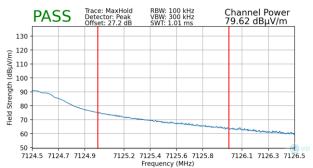




Plot 7-383. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 106T)



Plot 7-382. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 106T)

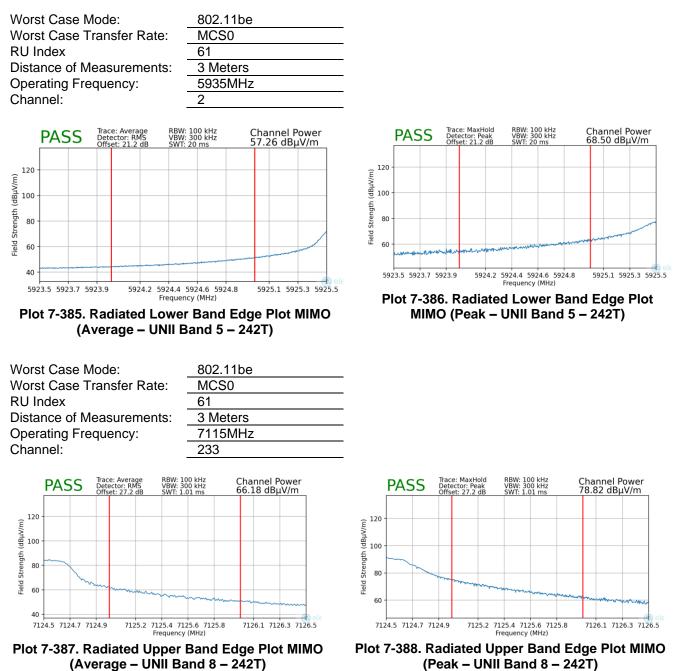


Plot 7-384. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 106T)

FCC ID: A3LNP940XMA		MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Page 252 of 261	
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Fage 252 01 261	
© 2024 ELEMENT			V 9.0 02/01/2019	



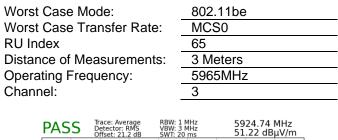
7.7.4 MIMO Radiated Band Edge Measurements (20MHz BW – Full Tone – 242T)

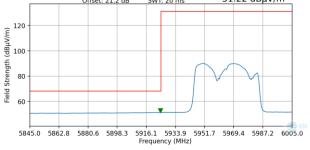


FCC ID: A3LNP940XMA		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Daga 252 of 261
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Page 253 of 261
© 2024 ELEMENT	•		V 9.0 02/01/2019



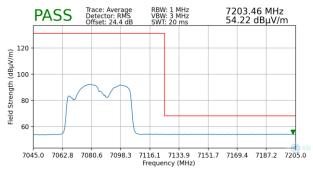
7.7.5 MIMO Radiated Band Edge Measurements (40MHz BW – Full Tone – 484T)



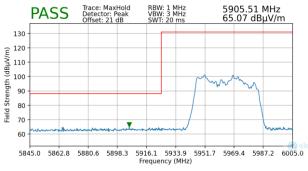


Plot 7-389. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 484T)

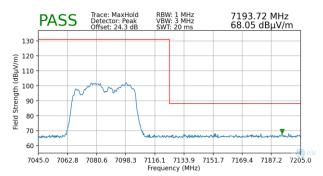
Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	7085MHz
Channel:	227



Plot 7-391. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 484T)



Plot 7-390. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 484T)

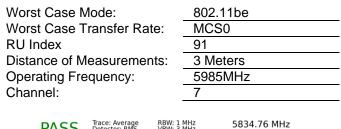


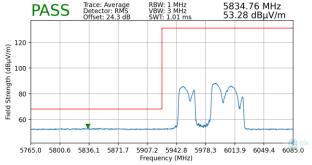
Plot 7-392. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 484T)

FCC ID: A3LNP940XMA		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 254 of 261
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Page 254 01 201
© 2024 ELEMENT			V 9.0 02/01/2019

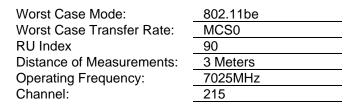


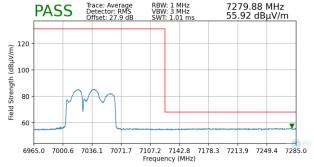
7.7.6 MIMO Radiated Band Edge Measurements (80MHz BW – 484T + 242T)



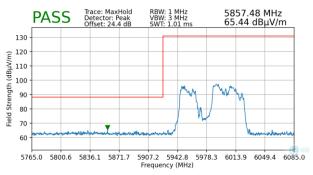


Plot 7-393. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 484T+242T)

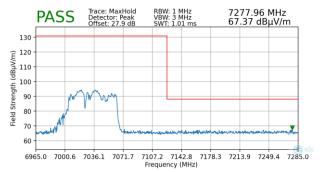








Plot 7-394. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 484T+242T)

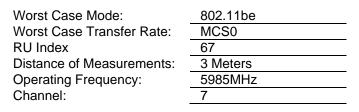


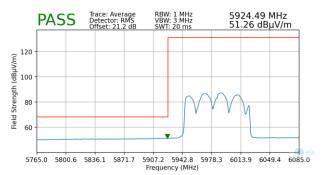
Plot 7-396. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 484T+242T)

FCC ID: A3LNP940XMA		MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Page 255 of 261	
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Fage 255 01 261	
© 2024 ELEMENT	<u>.</u>		V 9.0 02/01/2019	

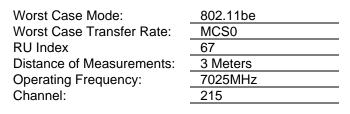


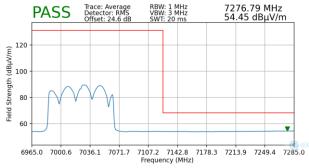
7.7.7 MIMO Radiated Band Edge Measurements (80MHz BW – Full Tone – 996T)





Plot 7-397. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 996T)

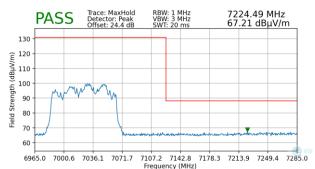




Plot 7-399. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 996T)



Plot 7-398. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 996T)

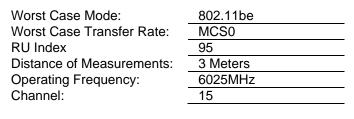


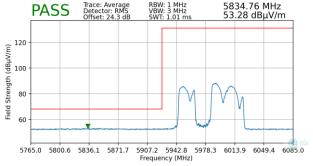
Plot 7-400. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 996T)

FCC ID: A3LNP940XMA		MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Page 256 of 261	
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Fage 256 01 261	
© 2024 ELEMENT			V 9.0 02/01/2019	

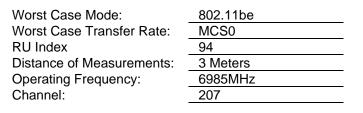


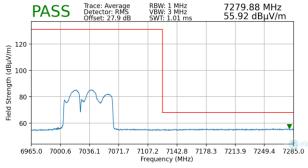
7.7.8 MIMO Radiated Band Edge Measurements (160MHz BW – 996T + 484T)





Plot 7-401. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 996T+484T)

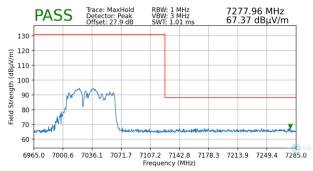








Plot 7-402. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 996T+484T)

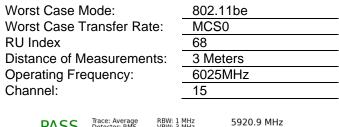


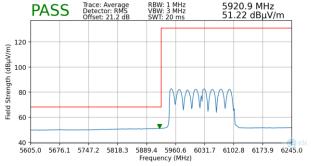
Plot 7-404. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 996T+484T)

FCC ID: A3LNP940XMA		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 257 of 261
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Fage 237 01 201
© 2024 ELEMENT		·	V 9.0 02/01/2019

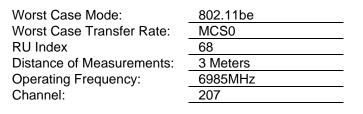


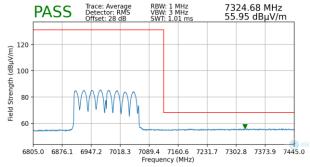
7.7.9 MIMO Radiated Band Edge Measurements (160MHz BW – Full Tone – 2x996T)

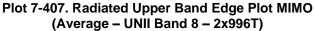


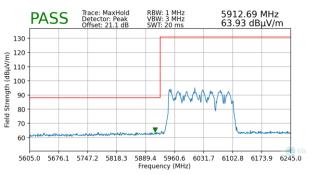


Plot 7-405. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 2x996T)

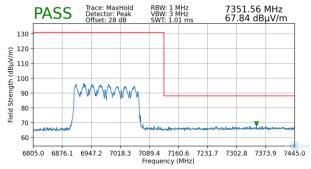








Plot 7-406. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 2x996T)

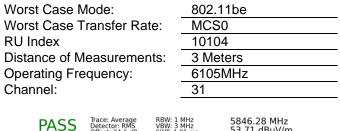


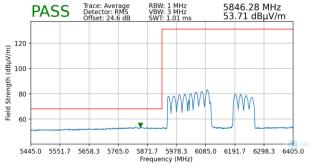
Plot 7-408. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 2x996T)

FCC ID: A3LNP940XMA		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 258 of 261
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Faye 200 01 201
© 2024 ELEMENT	•	·	V 9.0 02/01/2019

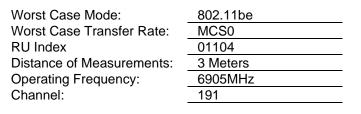


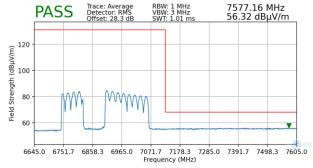
7.7.10 MIMO Radiated Band Edge Measurements (320MHz BW – 3x996T)

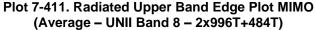


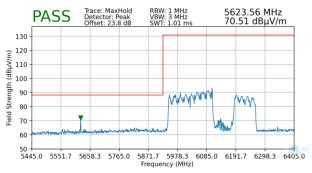


Plot 7-409. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 2x996T+484T)

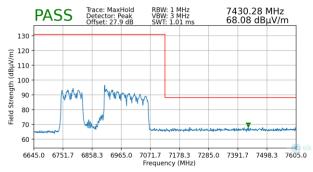








Plot 7-410. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 2x996T+484T)

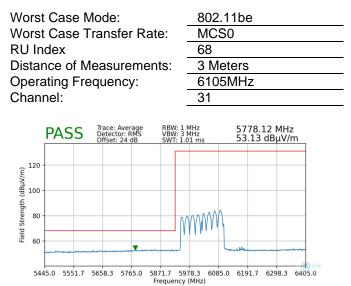


Plot 7-412. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 2x996T+484T)

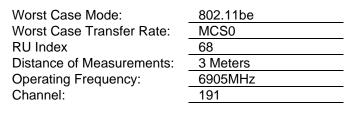
FCC ID: A3LNP940XMA		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 259 of 261
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Fage 259 01 201
© 2024 ELEMENT		·	V 9.0 02/01/2019

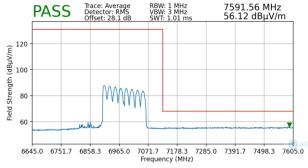


7.7.11 MIMO Radiated Band Edge Measurements (320MHz BW – 2x996T)

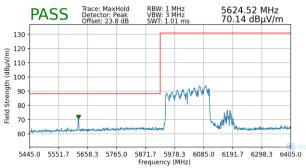




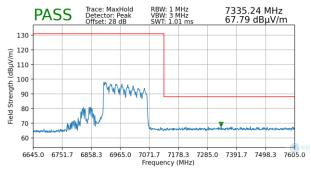








Plot 7-414. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 2x996T)



Plot 7-416. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 2x996T)

FCC ID: A3LNP940XMA	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 260 of 261
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	
© 2024 ELEMENT			V 9.0 02/01/2019



8 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Computing Device FCC ID: A3LNP940XMA** is in compliance with Part 15.407 of the FCC rules.

FCC ID: A3LNP940XMA		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Page 261 of 261
1M2403190019-10.A3L	03/14/2024 - 04/25/2024	Portable Computing Device	Fage 201 01 201
© 2024 ELEMENT		·	V 9.0 02/01/2019