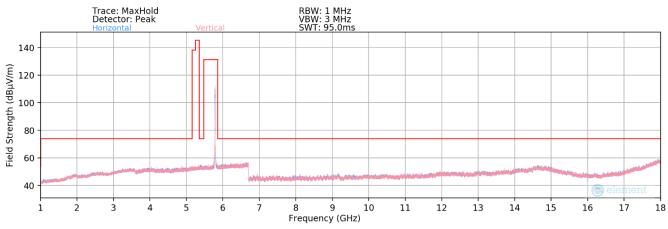
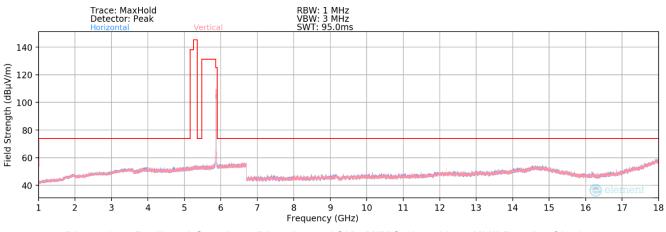


Plot 7-190. Radiated Spurious Plot above 1GHz MIMO (802.11a - UNII Band 2C Ch. 120)



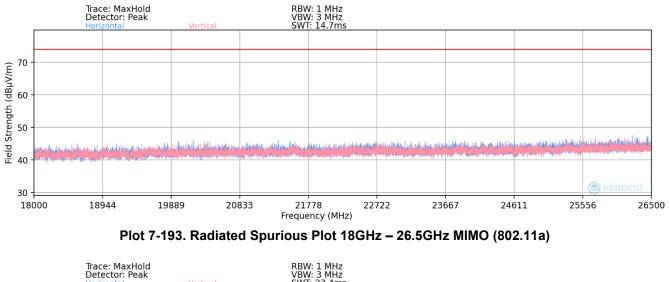


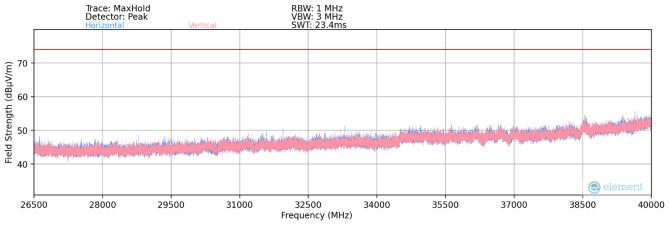




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Plot 7-194. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11a)

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MIMO Radiated Spurious Emission Measurements – UNII Band 1

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

802.11a 6Mbps 1 & 3 Meters

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	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)								
						10360.00	Peak	Н	-	-	-67.03	8.35	0.00	48.32	68.20	-19.88								
					*	15540.00	Average	Н	142	49	-74.55	10.01	0.00	42.46	53.98	-11.52								
			36	5180	*	15540.00	Peak	Н	142	49	-61.12	10.01	0.00	55.89	73.98	-18.09								
			30	3160	*	20720.00	Average	Н	-	-	-66.70	3.50	-9.54	34.26	53.98	-19.72								
					*	20720.00	Peak	Н	-	-	-57.24	3.50	-9.54	43.72	73.98	-30.26								
						25900.00	Peak	Н	-	-	-57.37	4.57	-9.54	44.66	68.20	-23.54								
						10400.00	Peak	Н	-	-	-66.54	8.75	0.00	49.21	68.20	-18.99								
				5200	5200	5200	*	15600.00	Average	н	137	52	-73.40	8.91	0.00	42.51	53.98	-11.47						
802.11a	MIMO	1	40				5200	5200	5200	5200	5200	5200	*	15600.00	Peak	Н	137	52	-60.87	8.91	0.00	55.04	73.98	-18.94
			40							*	20800.00	Average	н	-	-	-66.11	3.60	-9.54	34.95	53.98	-19.03			
					*	20800.00	Peak	н	-	-	-56.19	3.60	-9.54	44.87	73.98	-29.11								
						26000.00	Peak	Н	-	-	-57.36	4.60	-9.54	44.70	68.20	-23.50								
						10480.00	Peak	Н	-	-	-66.04	8.11	0.00	49.07	68.20	-19.13								
					*	15720.00	Average	Н	139	50	-74.52	9.29	0.00	41.77	53.98	-12.21								
		48	5240	*	15720.00	Peak	Н	139	50	-61.74	9.29	0.00	54.55	73.98	-19.43									
							20960.00	Peak	Н	-	-	-56.41	3.61	-9.54	44.66	68.20	-23.54							
						26200.00	Peak	Н	-	-	-56.20	4.72	-9.54	45.98	68.20	-22.22								

Table 7-30. Radiated Measurements MIMO

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	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]																			
						10400.00	Peak	н	-	-	-66.24	8.75	0.00	49.51	68.20	-18.69																			
					*	15600.00	Average	Н	101	182	-73.40	8.91	0.00	42.51	53.98	-11.47																			
802.11a	мімо	1	40	5200	*	15600.00	Peak	Н	101	182	-60.87	8.91	0.00	55.04	73.98	-18.94																			
002.11d	WIIWO	'	40	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	5200	*	20800.00	Average	Н	-	-	-66.21	3.60	-9.54	34.85	53.98	-19.13
				*	20800.00	Peak	Н	-	-	-56.35	3.60	-9.54	44.71	73.98	-29.27																				
						26000.00	Peak	Н	-	-	-56.94	4.60	-9.54	45.12	68.20	-23.08																			

Table 7-31. Radiated Measurements MIMO with WCP

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MIMO Radiated Spurious Emission Measurements – UNII Band 2A

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

802.11a 6Mbps 1 & 3 Meters

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	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]
						10520.00	Peak	Н	-	-	-65.37	7.46	0.00	49.09	68.20	-19.11
					*	15780.00	Average	Н	137	50	-73.39	8.86	0.00	42.47	53.98	-11.51
			52	5260	*	15780.00	Peak	Н	137	50	-60.89	8.86	0.00	54.97	73.98	-19.01
			52	5200	*	21040.00	Average	Н	-	-	-66.86	3.71	-9.54	34.31	53.98	-19.67
					*	21040.00	Peak	н	-	-	-57.19	3.71	-9.54	43.99	73.98	-29.99
						26300.00	Peak	Н	-	-	-57.39	4.64	-9.54	44.71	68.20	-23.49
						10560.00	Peak	Н	-	-	-66.23	7.75	0.00	48.52	68.20	-19.68
					*	15840.00	Average	Н	132	47	-73.46	8.68	0.00	42.22	53.98	-11.76
			56	5280	*	15840.00	Peak	Н	132	47	-60.82	8.68	0.00	54.86	73.98	-19.12
802.11a	MIMO	2A	20	5280	*	21120.00	Average	Н	-	-	-66.10	3.83	-9.54	35.19	53.98	-18.79
					*	21120.00	Peak	Н	-	-	-56.16	3.83	-9.54	45.13	73.98	-28.85
						26400.00	Peak	Н	-	-	-56.33	4.68	-9.54	45.81	68.20	-22.39
					*	10640.00	Average	Н	-	-	-78.44	-17.78	0.00	10.78	53.98	-43.20
					*	10640.00	Peak	Н	-	-	-66.02	-17.78	0.00	23.20	73.98	-50.78
					*	15960.00	Average	Н	133	44	-74.02	-13.60	0.00	19.38	53.98	-34.60
			64	5320	*	15960.00	Peak	Н	133	44	-61.22	-13.60	0.00	32.18	73.98	-41.80
					*	21280.00	Average	н	-	-	-66.04	3.95	-9.54	35.37	53.98	-18.61
					*	21280.00	Peak	н	-	-	-56.74	3.95	-9.54	44.68	73.98	-29.30
						26600.00	Peak	н	-	-	-56.38	4.51	-9.54	45.59	68.20	-22.61

Table 7-32. Radiated Measurements MIMO

FCC ID: A3LSMS928U		MEASUREMENT REPORT	Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements – UNII Band 2C

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

802.11a 6Mbps 1 & 3 Meters

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	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]									
					*	11000.00	Average	Н	-	-	-78.35	7.81	0.00	36.46	53.98	-17.52									
					*	11000.00	Peak	Н	-	-	-66.07	7.81	-9.54	39.20	73.98	-34.78									
			100	5500		16500.00	Peak	Н	133	19	-63.31	8.23	-9.54	42.38	68.20	-25.82									
						22000.00	Peak	Н	-	-	-56.39	3.86	-9.54	44.92	68.20	-23.28									
						27500.00	Peak	Н	-	-	-56.48	4.54	-9.54	45.52	68.20	-22.68									
					*	11200.00	Average	Н	-	-	-78.53	8.05	0.00	36.52	53.98	-17.46									
					*	11200.00	Peak	Н	-	-	-66.65	8.05	0.00	48.40	73.98	-25.58									
			120	5600		16800.00	Peak	Н	152	42	-64.41	8.84	0.00	51.43	68.20	-16.77									
802.11a	MIMO	2C	120	3000	*	22400.00	Average	Н	-	-	-66.57	3.86	-9.54	34.74	53.98	-19.24									
						-	-	-	-	F			F	*	22400.00	Peak	Н	-	-	-57.49	3.86	-9.54	43.82	73.98	-30.16
						28000.00	Peak	Н	-		-57.39	4.90	-9.54	44.98	68.20	-23.22									
													*	11440.00	Average	Н	-	-	-78.64	8.25	0.00	36.61	53.98	-17.37	
					*	11440.00	Peak	н	-	-	-66.39	8.25	0.00	48.86	73.98	-25.12									
			144	5720		17160.00	Peak	Н	-	-	-65.51	10.91	0.00	52.40	68.20	-15.80									
	144	144	5720	*	22880.00	Average	Н	-	-	-66.20	4.09	-9.54	35.36	53.98	-18.62										
					*	22880.00	Peak	Н	-	-	-56.36	4.09	-9.54	45.20	73.98	-28.78									
						28600.00	Peak	Н	-	-	-56.89	5.30	-9.54	45.87	68.20	-22.33									

Table 7-33. Radiated Measurements MIMO

FCC ID: A3LSMS928U		MEASUREMENT REPORT	Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements – UNII Band 3

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

802.11a 6Mbps 1 & 3 <u>Meters</u>

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	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)																	
					*	11490.00	Average	Н	-	-	-78.41	7.98	0.00	36.57	53.98	-17.41																	
					*	11490.00	Peak	Н	-	-	-65.50	7.98	0.00	49.48	73.98	-24.50																	
			149	5745		17235.00	Peak	Н	-	-	-65.08	11.32	0.00	53.24	68.20	-14.96																	
			149	3743	*	22980.00	Average	н	-	-	-66.31	4.00	-9.54	35.16	53.98	-18.82																	
					*	22980.00	Peak	н	-	-	-56.34	4.00	-9.54	45.13	73.98	-28.85																	
						28725.00	Peak	Н	-	-	-56.14	5.36	-9.54	46.68	68.20	-21.52																	
					*	11570.00	Average	н	-	-	-78.57	8.19	0.00	36.62	53.98	-17.36																	
802.11a	мімо	3			*	11570.00	Peak	н	-	-	-66.17	8.19	0.00	49.02	73.98	-24.96																	
002.11d	WIIWO	3	157	5785		17355.00	Peak	н	-	-	-65.47	12.44	0.00	53.97	68.20	-14.23																	
				5765						2.50		0,00	0,00	0,00	2.00	5,00		-			-		23140.00	Peak	н	-	-	-55.98	3.94	-9.54	45.42	68.20	-22.78
						28925.00	Peak	н	-	-	-56.43	5.33	-9.54	46.36	68.20	-21.84																	
					*	11650.00	Average	н	-	-	-78.26	8.38	0.00	37.12	53.98	-16.86																	
					*	11650.00	Peak	Н	-	-	-66.34	8.38	0.00	49.04	73.98	-24.94																	
			165	5825		17475.00	Peak	Н	-	-	-65.30	13.29	0.00	54.99	68.20	-13.21																	
						23300.00	Peak	Н	-	-	-56.50	4.04	-9.54	44.99	68.20	-23.21																	
						29125.00	Peak	Н	-	-	-57.08	5.36	-9.54	45.74	68.20	-22.46																	

Table 7-34. Radiated Measurements MIMO

FCC ID: A3LSMS928U		MEASUREMENT REPORT	Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements – UNII Band 4

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

802.11a 6Mbps 1 & 3 Meters

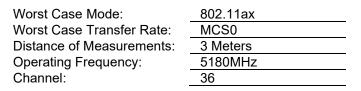
Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
					*	11690.00	Average	Н	-	-	-78.50	8.92	0.00	37.42	53.98	-16.56
					*	11690.00	Peak	Н	-	-	-66.29	8.92	0.00	49.63	73.98	-24.35
			169	5845		17535.00	Peak	Н	-	-	-65.21	13.86	0.00	55.65	68.20	-12.55
			109	3043		23380.00	Peak	Н	-	-	-56.83	3.89	-9.54	44.52	68.20	-23.68
						29225.00	Peak	Н	-	-	-57.00	5.50	-9.54	45.96	68.20	-22.24
						35070.00	Peak	Н	-	-	-56.64	8.14	-9.54	48.96	68.20	-19.24
					*	11730.00	Average	Н	-	-	-79.04	9.28	0.00	37.24	53.98	-16.74
					*	11730.00	Peak	Н	-	-	-66.68	9.28	0.00	49.60	73.98	-24.38
802.11a	мімо	4	173	5865		17595.00	Peak	Н	-	-	-65.20	14.27	0.00	56.07	68.20	-12.13
002.118	WIIWIO	-	175	3003		23460.00	Peak	Н	-	-	-55.86	4.00	-9.54	45.59	68.20	-22.61
						29325.00	Peak	н	-	-	-56.57	5.64	-9.54	46.53	68.20	-21.67
						35190.00	Peak	Н	-	-	-56.98	8.16	-9.54	48.64	68.20	-19.56
					*	11770.00	Average	Н	-	-	-78.66	9.33	0.00	37.67	53.98	-16.31
					*	11770.00	Peak	н	-	-	-66.69	9.33	0.00	49.64	73.98	-24.34
			177	5885		17655.00	Peak	н	-	-	-66.79	14.53	0.00	54.74	68.20	-13.46
			.//	3000		23540.00	Peak	н	-	-	-56.97	4.00	-9.54	44.49	68.20	-23.71
						29425.00	Peak	н	-	-	-57.74	5.71	-9.54	45.42	68.20	-22.78
						35310.00	Peak	н	-	-	-57.74	8.37	-9.54	48.09	68.20	-20.11

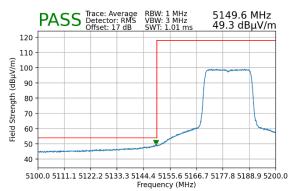
Table 7-35. Radiated Measurements MIMO

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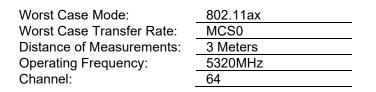


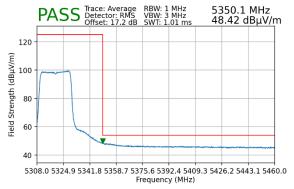
7.6.2 MIMO Radiated Band Edge Measurements (20MHz BW)



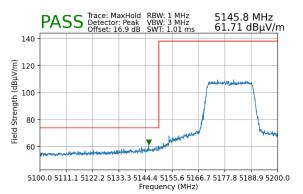


Plot 7-195. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

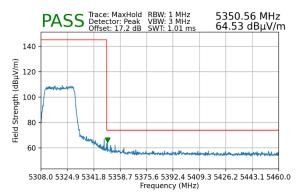








Plot 7-196. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

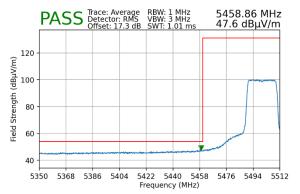


Plot 7-198. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
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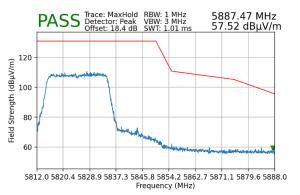


802.11ax
MCS0
3 Meters
5500MHz
100

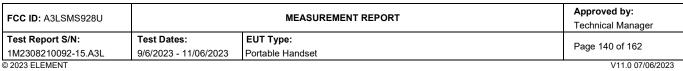


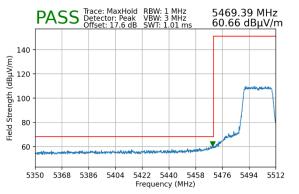
Plot 7-199. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



Plot 7-201. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

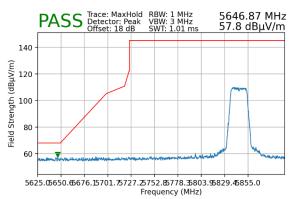




Plot 7-200. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

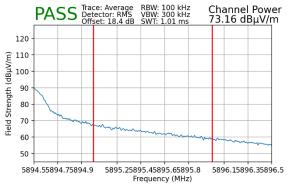


802.11n
MCS0
3 Meters
5845MHz
169

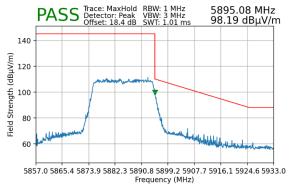


Plot 7-202. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5885MHz
Channel:	177



Plot 7-203. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)

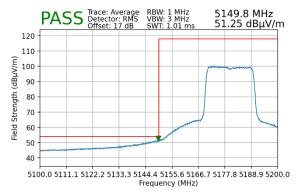


Plot 7-204. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

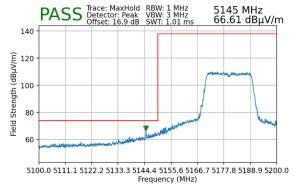
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36





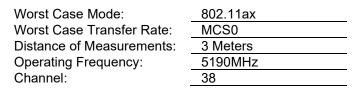


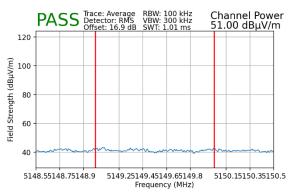


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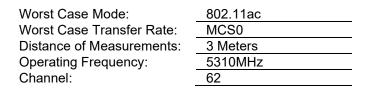


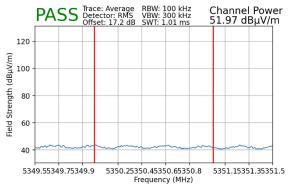
7.6.3 MIMO Radiated Band Edge Measurements (40MHz BW)



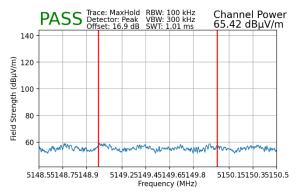


Plot 7-207. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

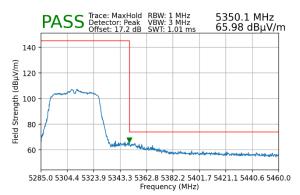




Plot 7-209. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



Plot 7-208. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

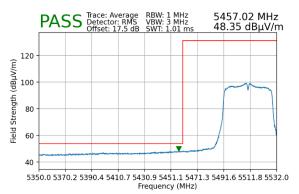


Plot 7-210. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

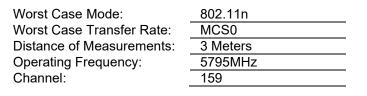
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
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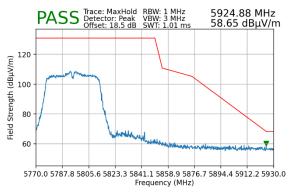


802.11ax
MCS0
3 Meters
5510MHz
102

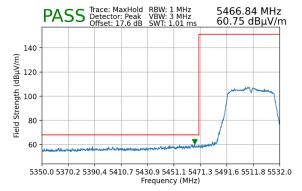








Plot 7-213. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

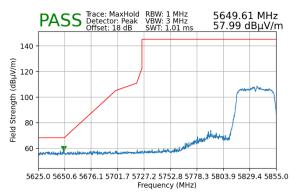


Plot 7-212. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

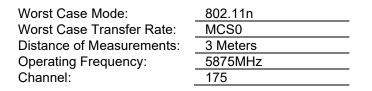
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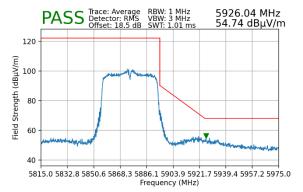


Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5835MHz
Channel:	167

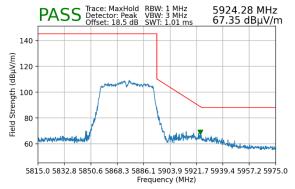


Plot 7-214. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)





Plot 7-215. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)

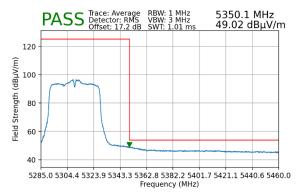


Plot 7-216. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

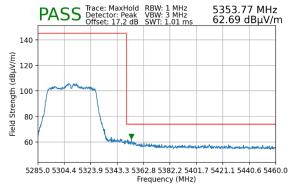
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
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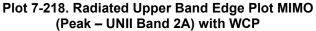


Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62





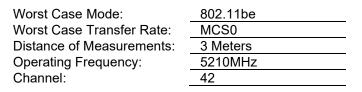


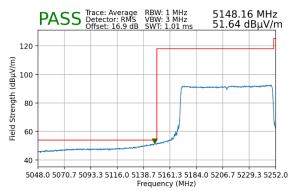


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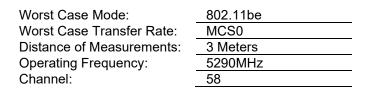


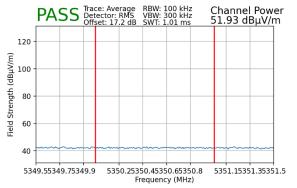
7.6.4 MIMO Radiated Band Edge Measurements (80MHz BW)



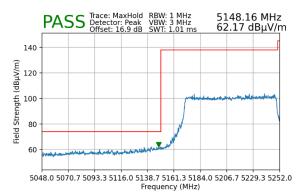


Plot 7-219. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

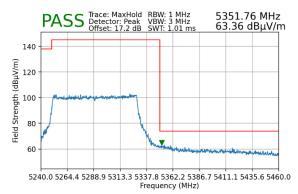








Plot 7-220. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

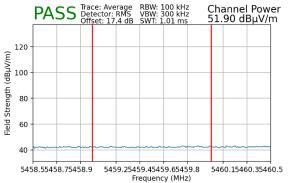


Plot 7-222. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

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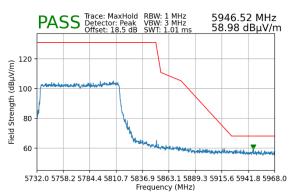


Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

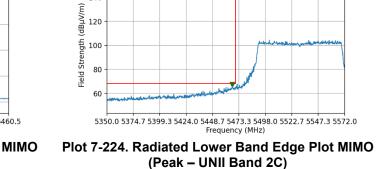


Plot 7-223. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5775MHz
Channel:	155



Plot 7-225. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)



PASS Trace: MaxHold RBW: 1 MHz Detector: Peak VBW: 3 MHz Offset: 17.6 dB SWT: 1.01 ms

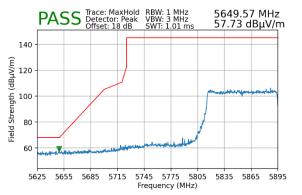
140

5466.99 MHz 65.82 dBµV/m

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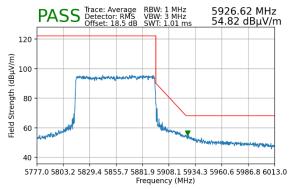


Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5855MHz
Channel:	171

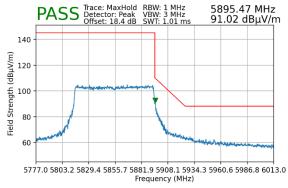


Plot 7-226. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5855MHz
Channel:	171





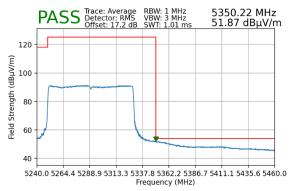


Plot 7-228. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

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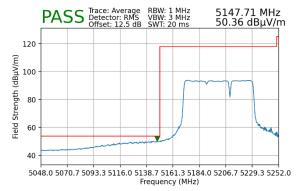


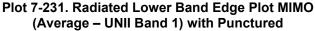
Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58

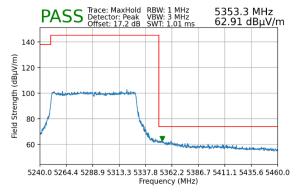


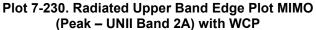


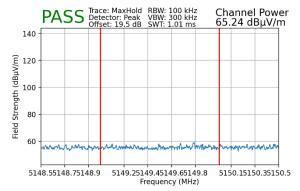
Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42









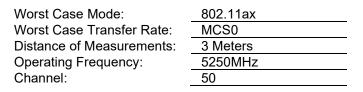


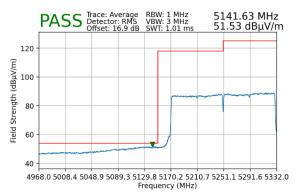
Plot 7-232. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1) with Punctured

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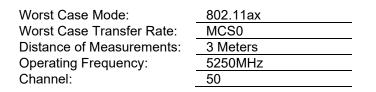


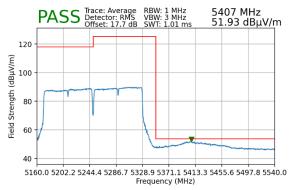
7.6.5 MIMO Radiated Band Edge Measurements (160MHz BW)



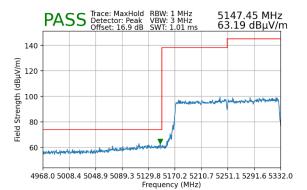


Plot 7-233. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

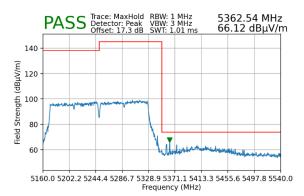




Plot 7-235. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



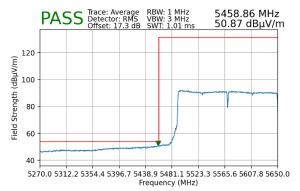
Plot 7-234. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)



Plot 7-236. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

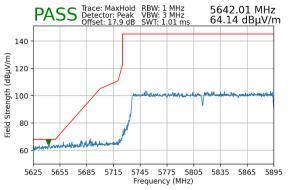
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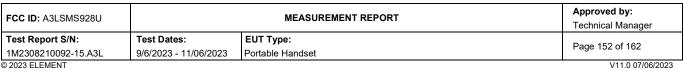


Plot 7-237. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)

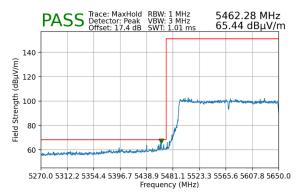
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5815MHz
Channel:	163



Plot 7-239. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)



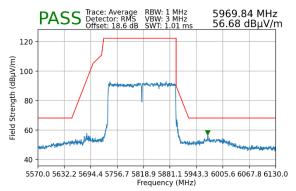
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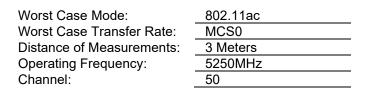


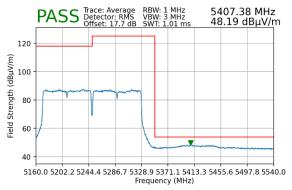


Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5815MHz
Channel:	163

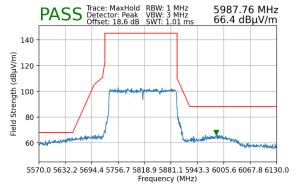


Plot 7-240. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)

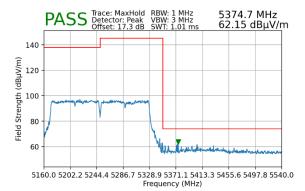




Plot 7-242. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1) with WCP



Plot 7-241. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)



Plot 7-243. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1) with WCP

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7.7 Line-Conducted Test Data

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst-case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below per FCC §15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dBµV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

 Table 7-36. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = RMS
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

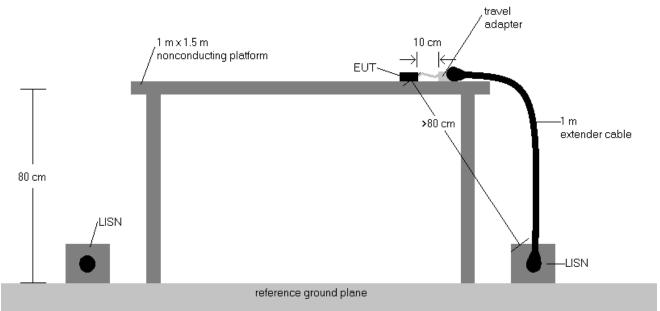
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Test Setup

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





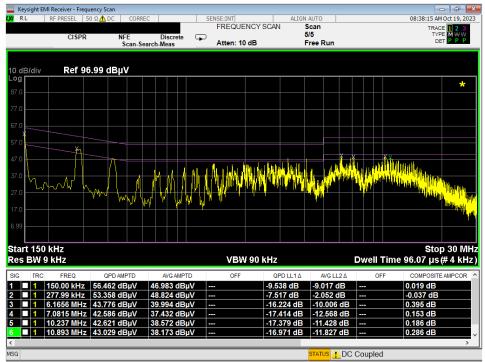
Test Notes

- 1. All modes of operation were investigated, and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
- 2. The limit for an intentional radiator from 150kHz to 30MHz is specified in §15.207 and RSS-Gen (8.8).
- 3. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 4. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Corr. (dB)
- 5. Margin (dB) = QP/AV Limit (dB μ V) QP/AV Level (dB μ V)
- 6. Traces shown in plot are made using a peak detector.
- 7. Deviations to the Specifications: None.

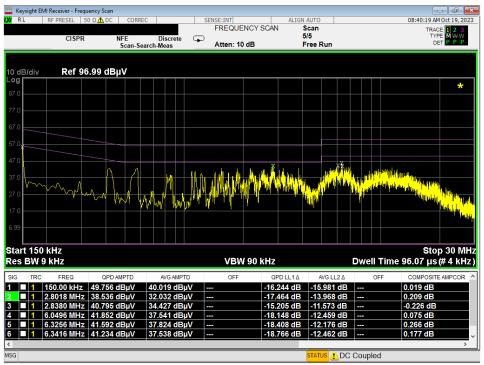
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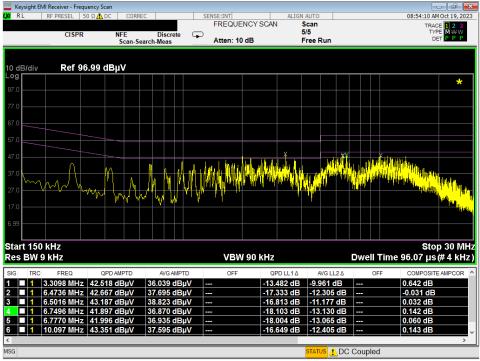
Plot 7-244. Line Conducted Plot with 802.11a UNII Band 1 (L1)



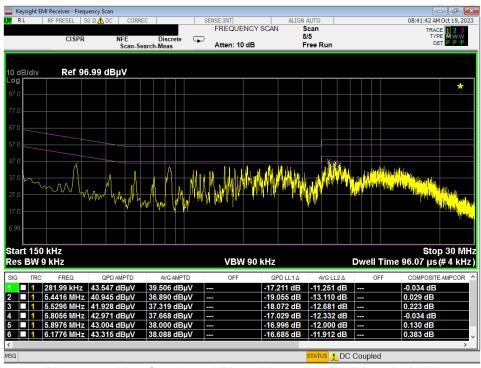
Plot 7-245. Line Conducted Plot with 802.11a UNII Band 1 (N)

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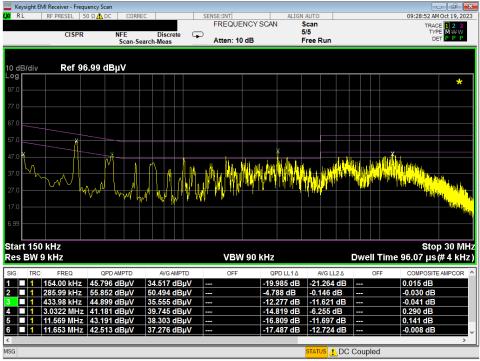
Plot 7-246. Line Conducted Plot with 802.11a UNII Band 2A (L1)



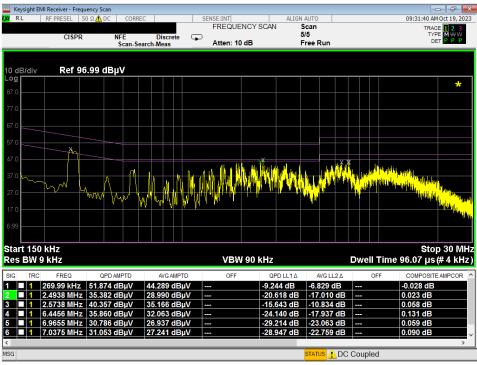
Plot 7-247. Line Conducted Plot with 802.11a UNII Band 2A (N)

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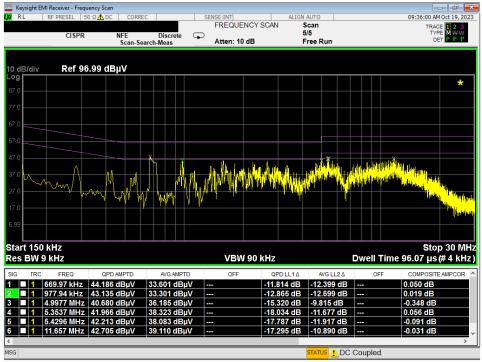
Plot 7-248. Line Conducted Plot with 802.11a UNII Band 2C (L1)



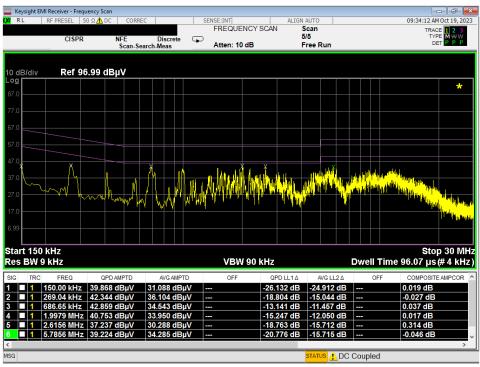
Plot 7-249. Line Conducted Plot with 802.11a UNII Band 2C (N)

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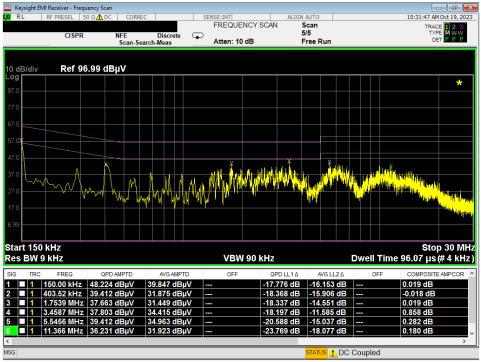
Plot 7-250. Line Conducted Plot with 802.11a UNII Band 3 (L1)



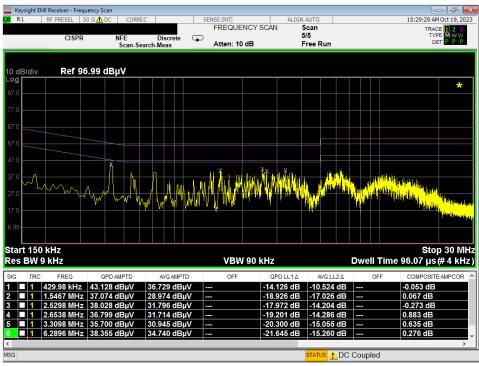
Plot 7-251. Line Conducted Plot with 802.11a UNII Band 3 (N)

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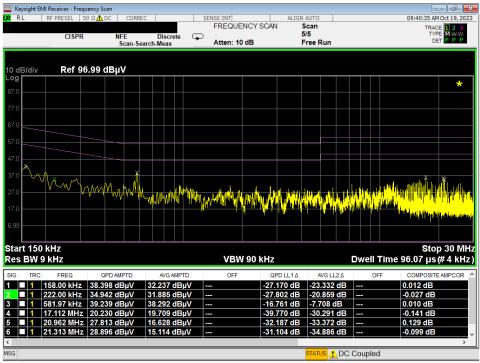
Plot 7-252. Line Conducted Plot with 802.11a UNII Band 4 (L1)



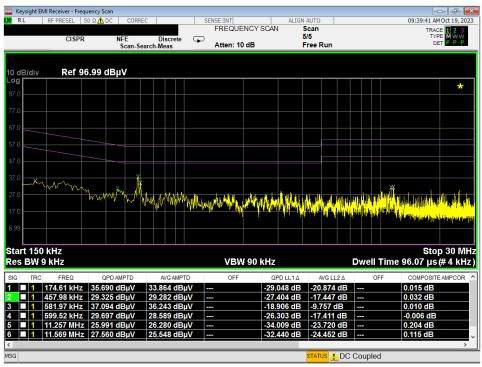
Plot 7-253. Line Conducted Plot with 802.11a UNII Band 4 (N)

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Plot 7-254. Line Conducted Plot with 802.11a UNII Band 1 (L1) with WCP



Plot 7-255. Line Conducted Plot with 802.11a UNII Band 1 (N) with WCP

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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: A3LSMS928U** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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