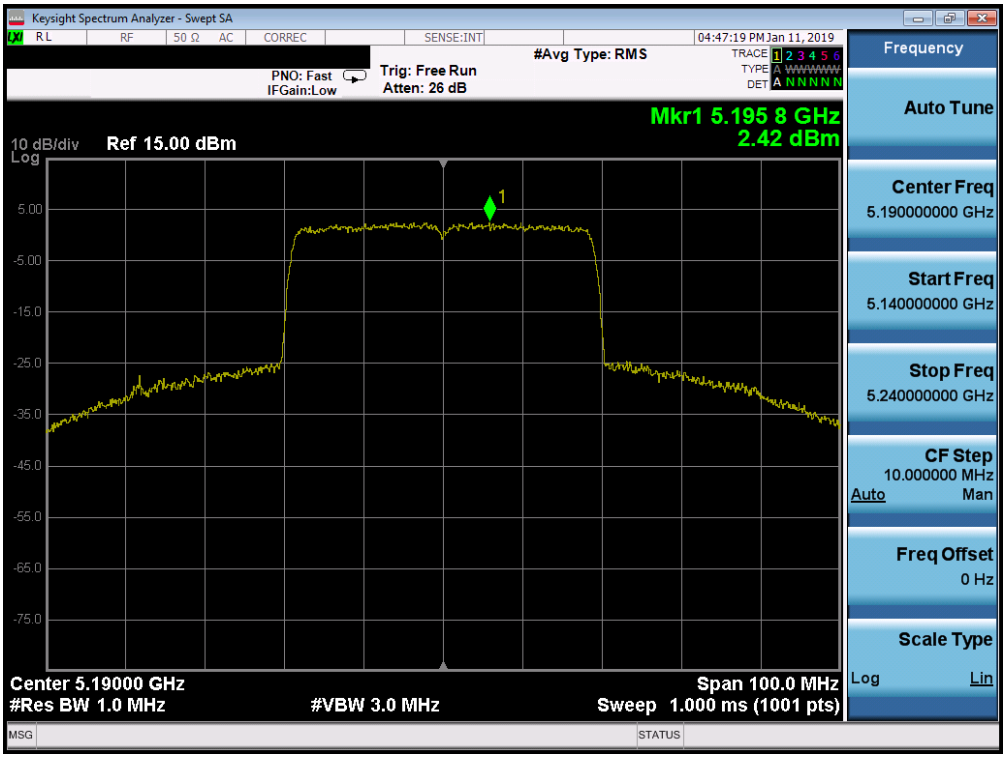
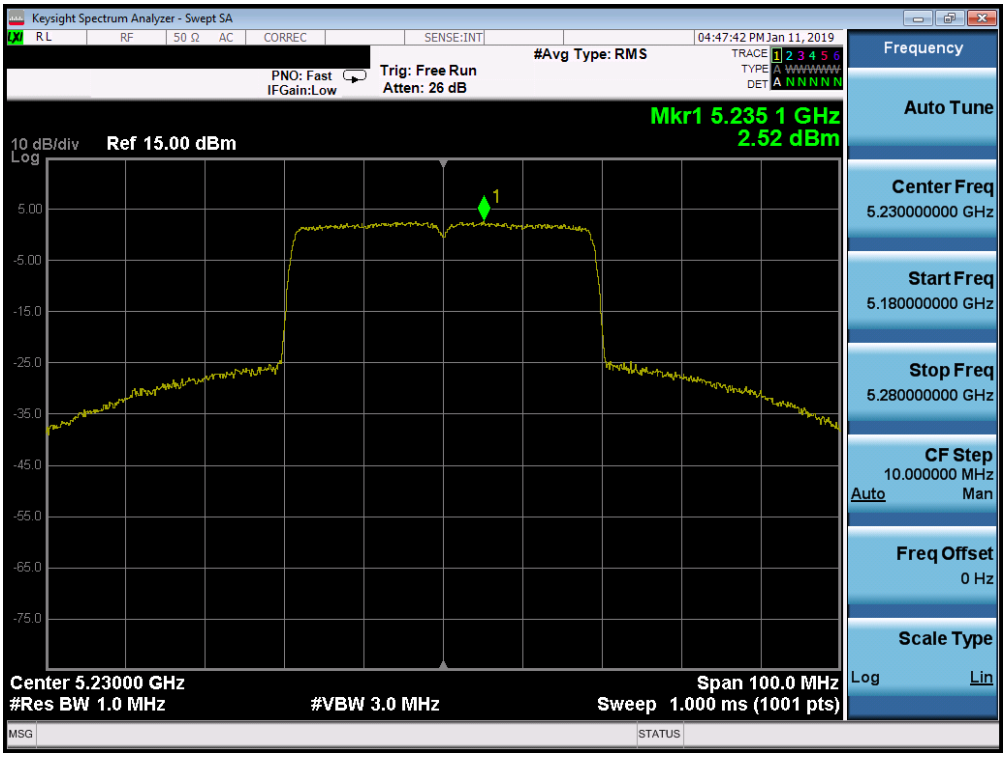


Plot 7-346. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 38)



Plot 7-347. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 46)

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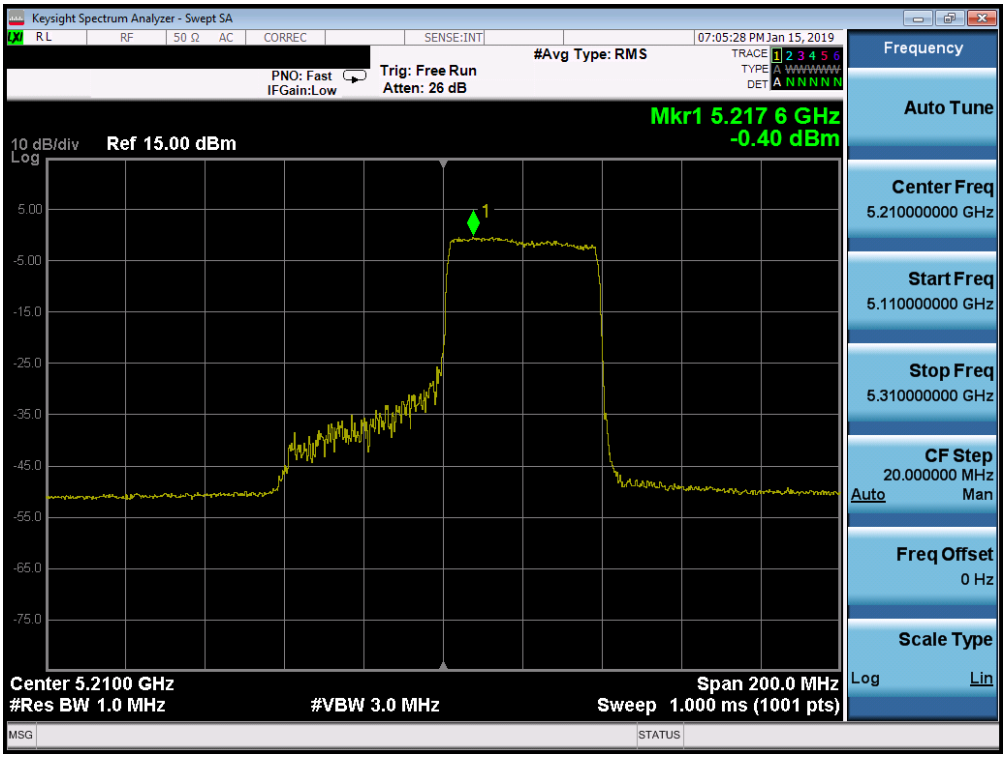
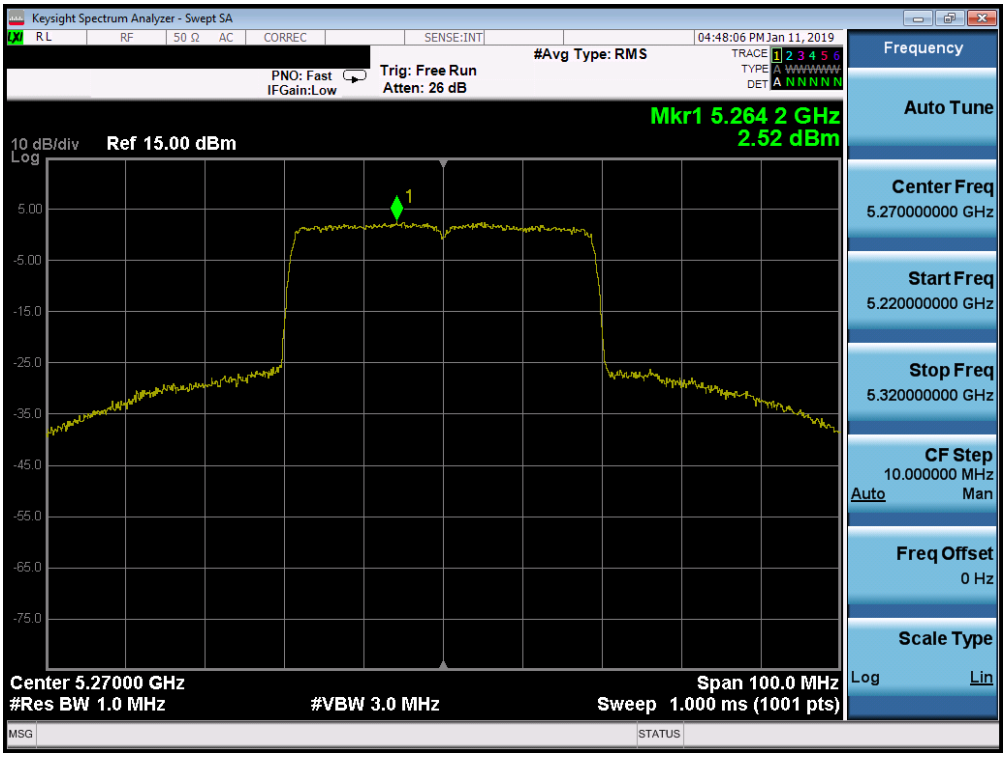


Plot 7-348. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 42)



Plot 7-349. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 54)

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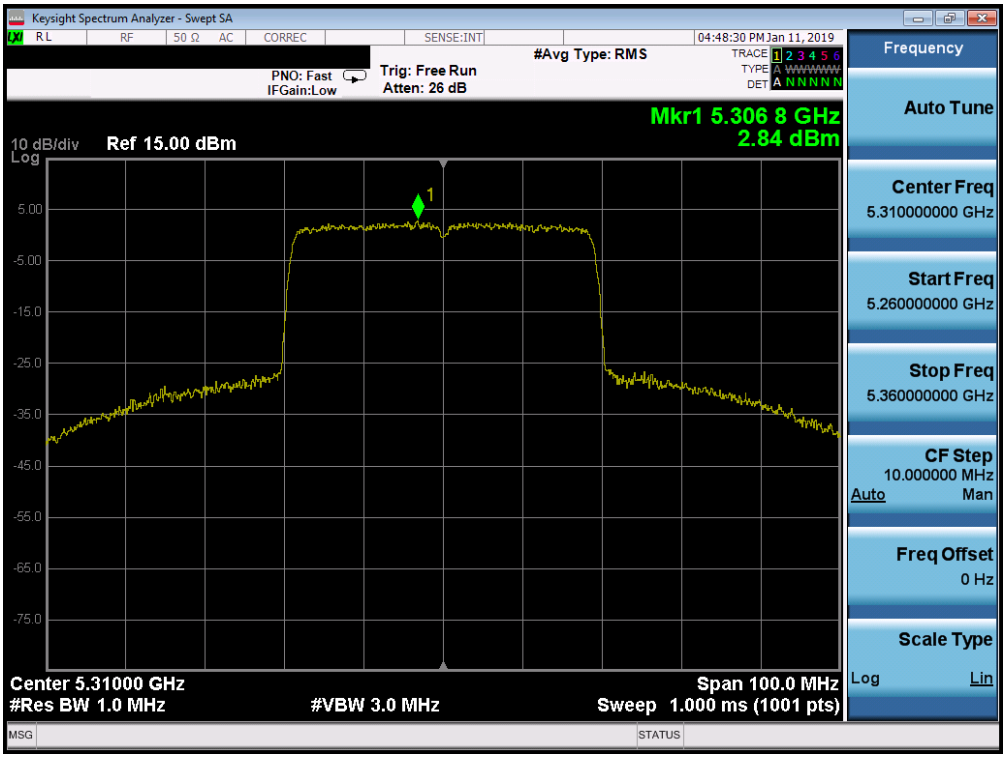
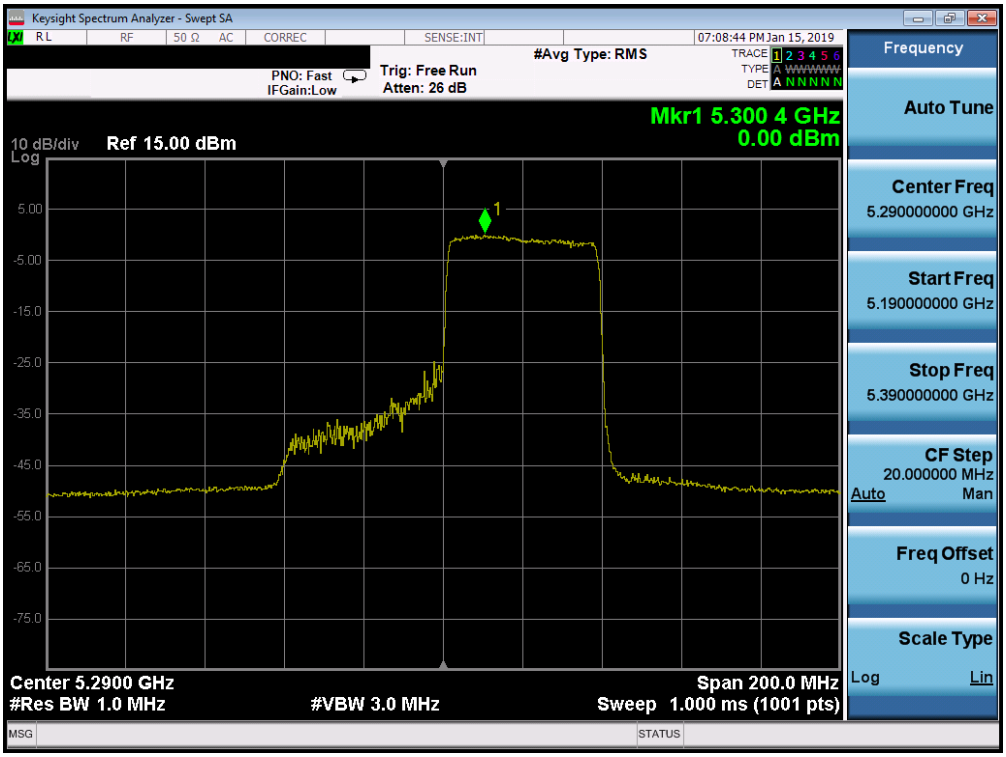


Plot 7-350. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 62)



Plot 7-351. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 58)

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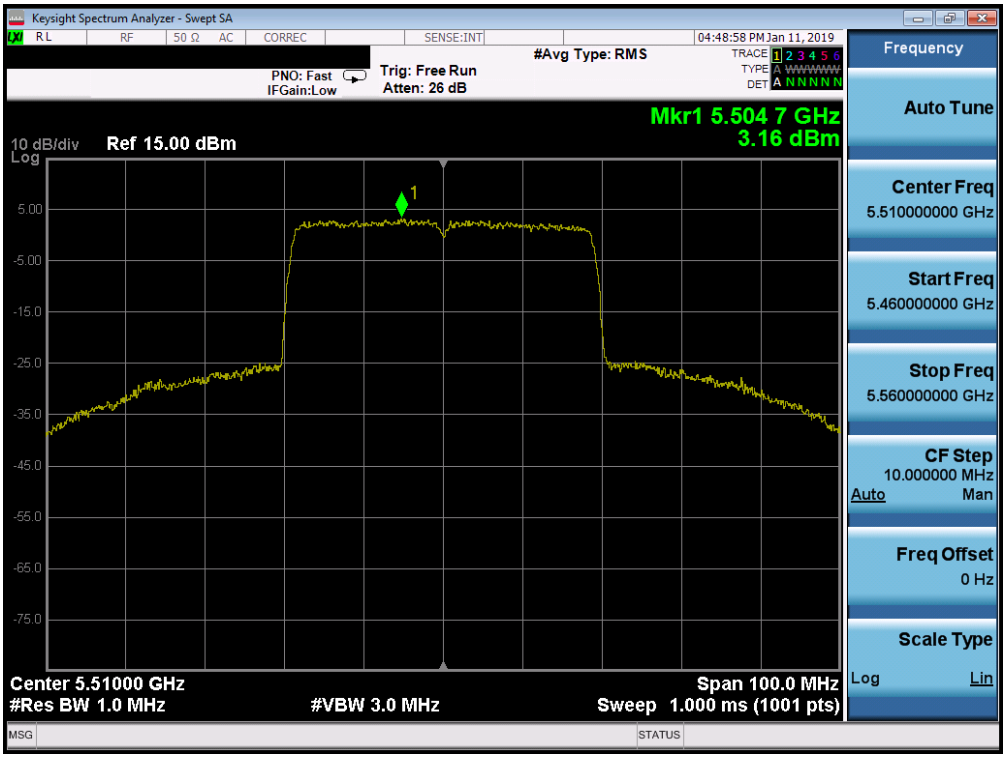
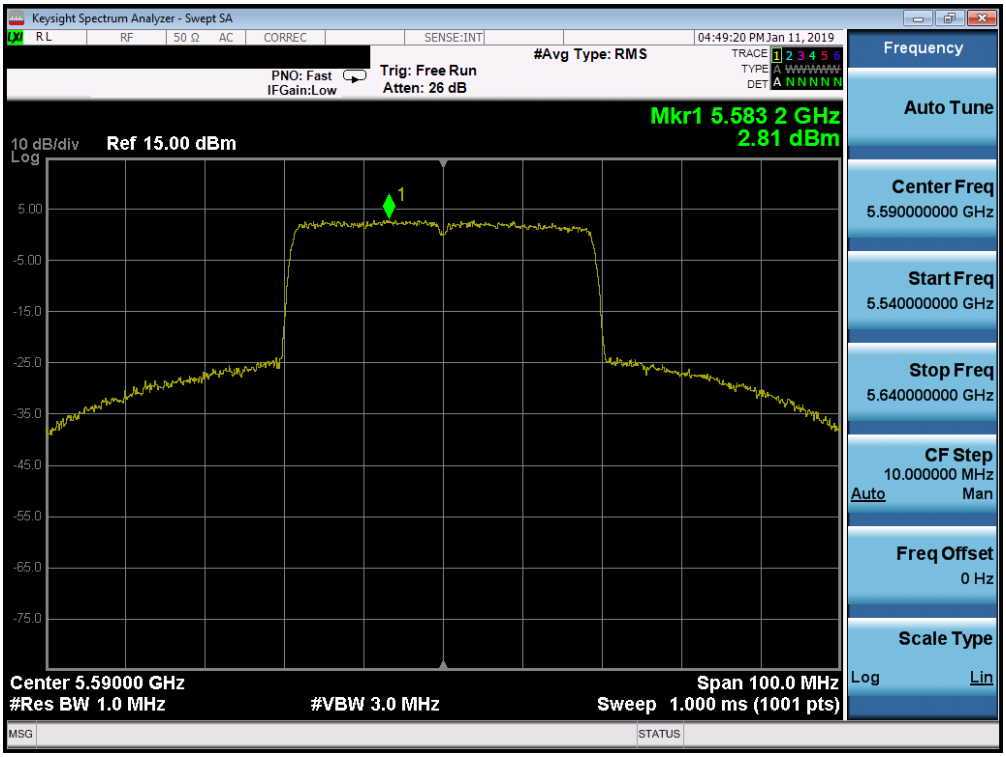


Plot 7-352. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 102)



Plot 7-353. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 118)

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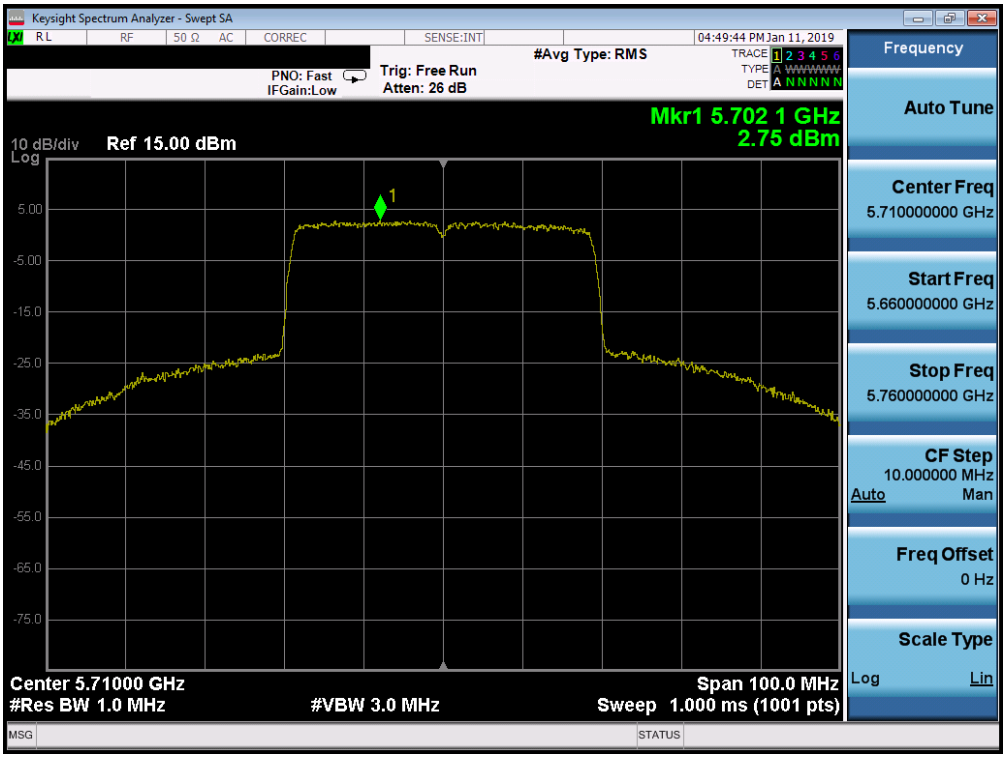
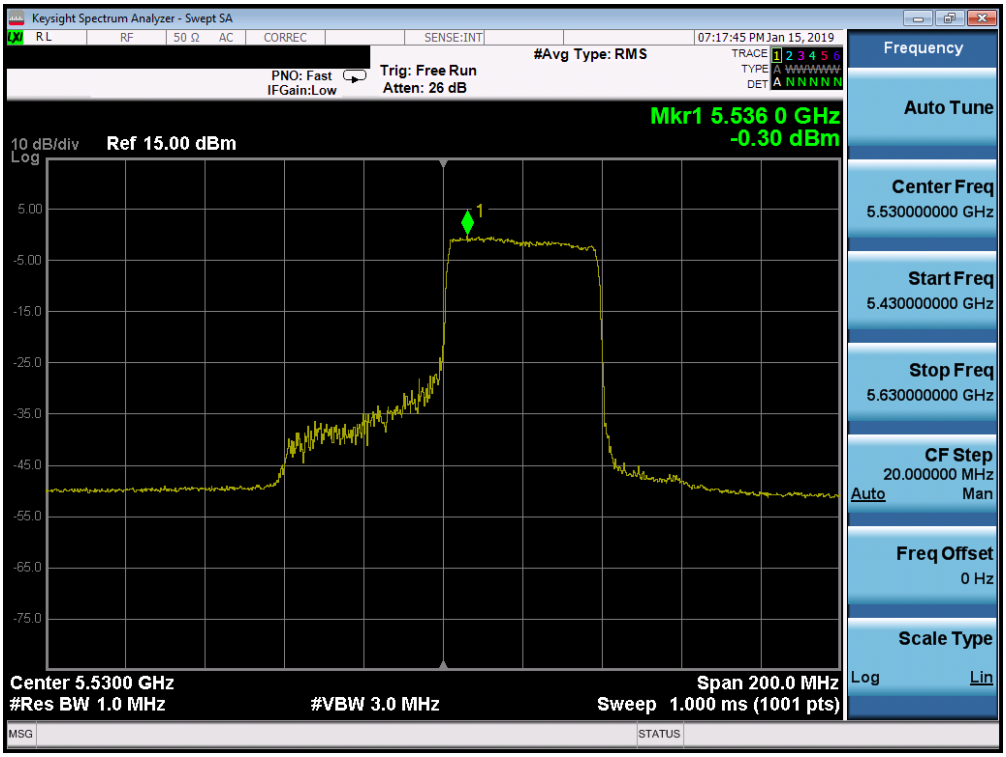


Plot 7-354. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 142)



Plot 7-355. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 106)

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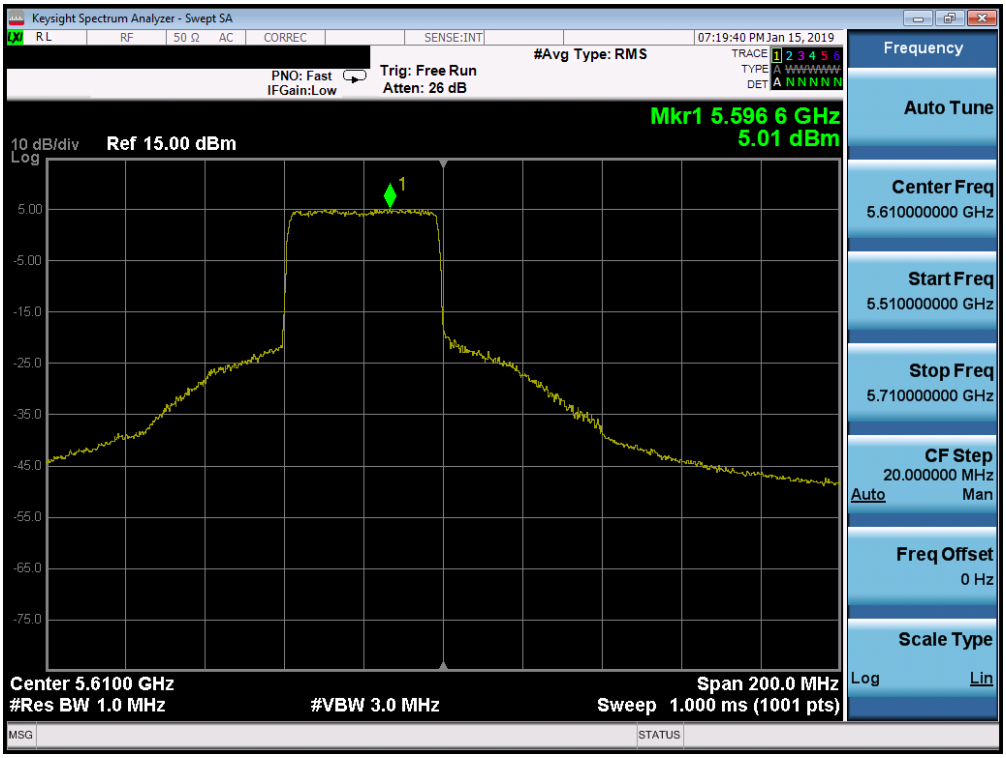

Plot 7-356. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 122)

Plot 7-357. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 138)

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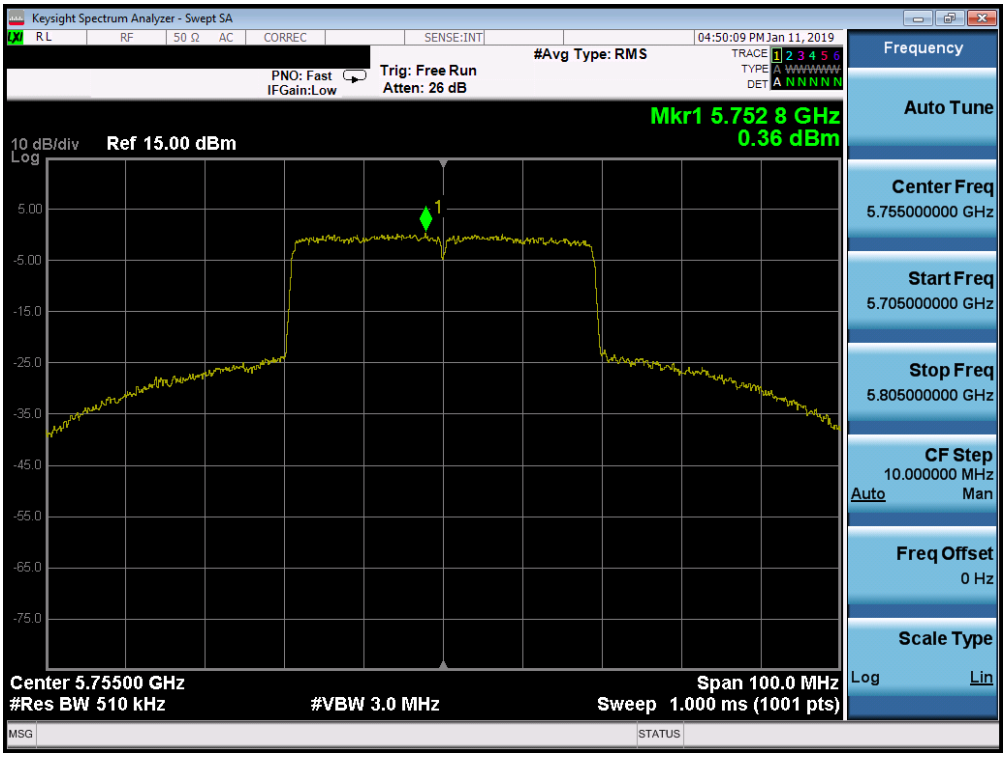
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5755	151	ax (40MHz)	484T	MCS0	0.36	30.00	-29.64
	5795	159	ax (40MHz)	484T	MCS0	0.64	30.00	-29.36
	5775	155	ax (80MHz)	484T	MCS0	6.20	30.00	-23.80

Table 7-95. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (484 Tones)



Plot 7-358. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

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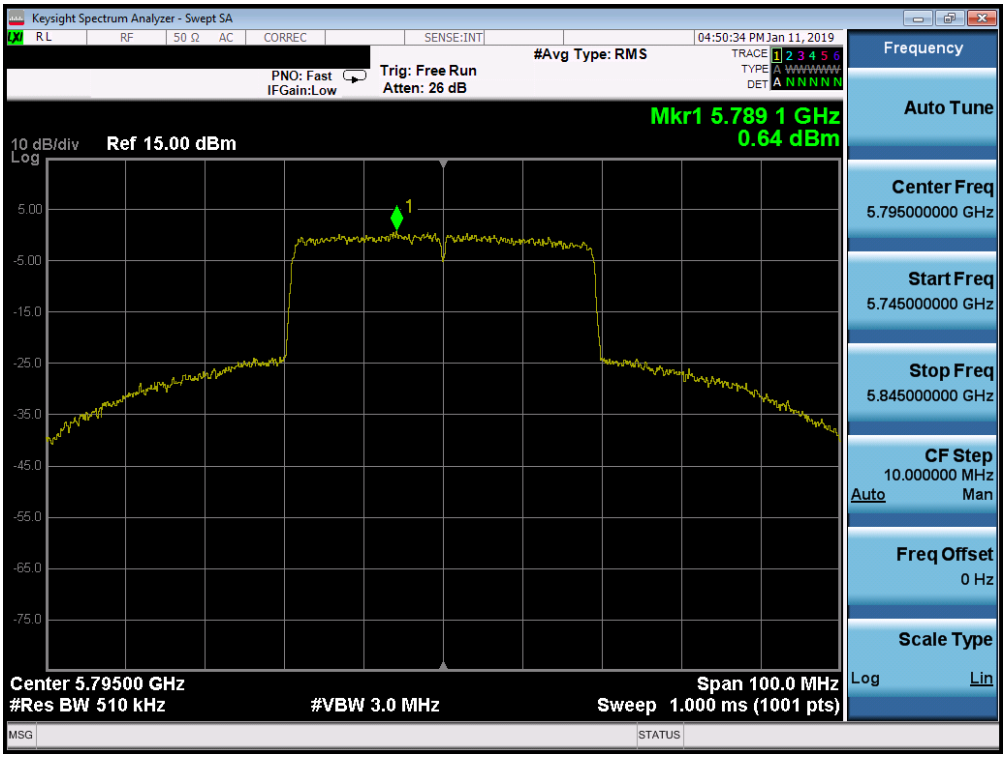
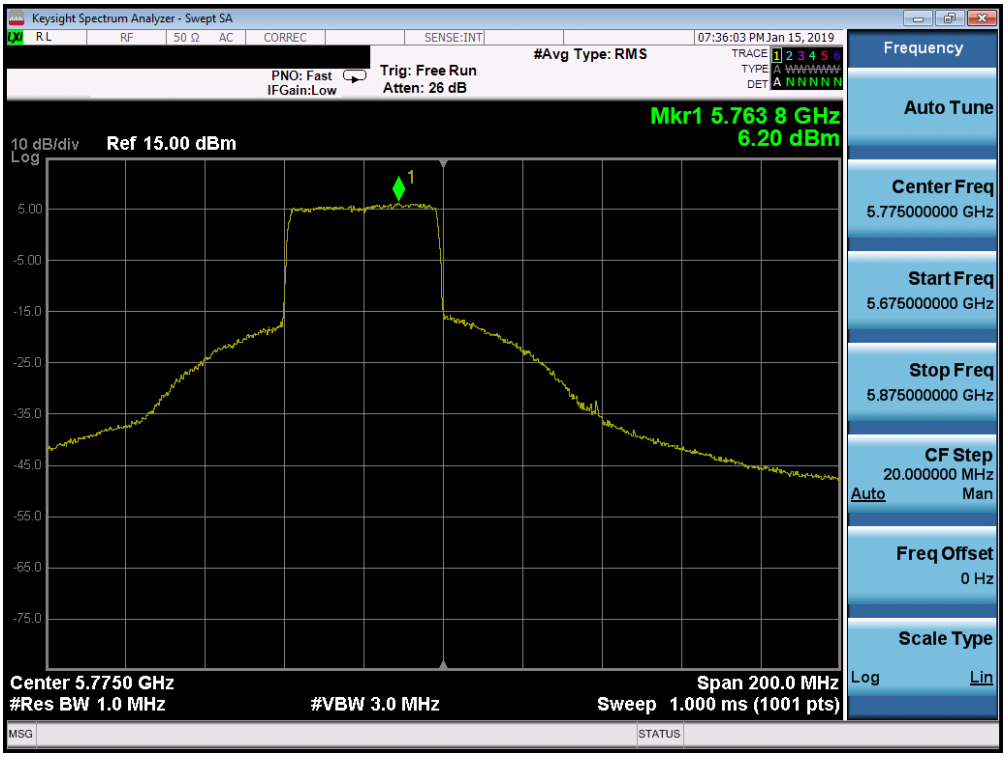


Plot 7-359. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 159)



Plot 7-360. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 155)

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SISO Antenna-2 Power Spectral Density Measurements (996 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5210	42	ax (80MHz)	996T	MCS0	-3.34	11.00	-14.34
Band 2A	5290	58	ax (80MHz)	996T	MCS0	-3.25	11.00	-14.25
Band 2C	5530	106	ax (80MHz)	996T	MCS0	-3.94	11.00	-14.94
	5610	122	ax (80MHz)	996T	MCS0	2.26	11.00	-8.74
	5690	138	ax (80MHz)	996T	MCS0	2.77	11.00	-8.23

Table 7-96. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT2 (996 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5210	42	ax (80MHz)	996T	MCS0	-3.34	-7.57	-10.91	10.0	-20.91

Table 7-97. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 996 Tones)

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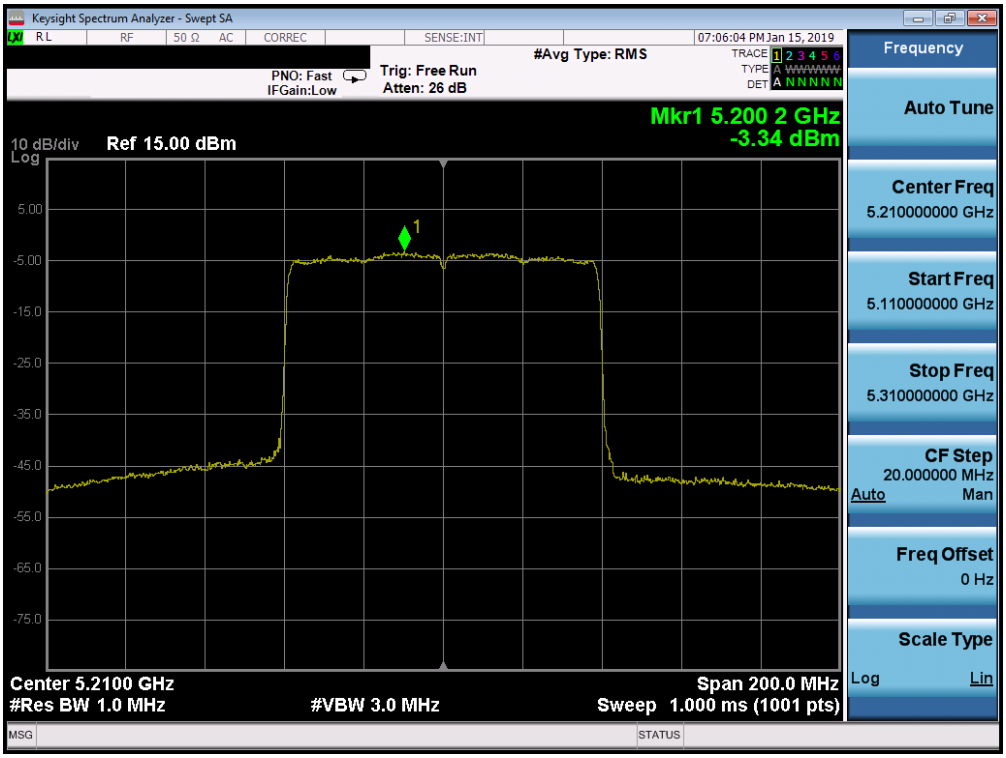
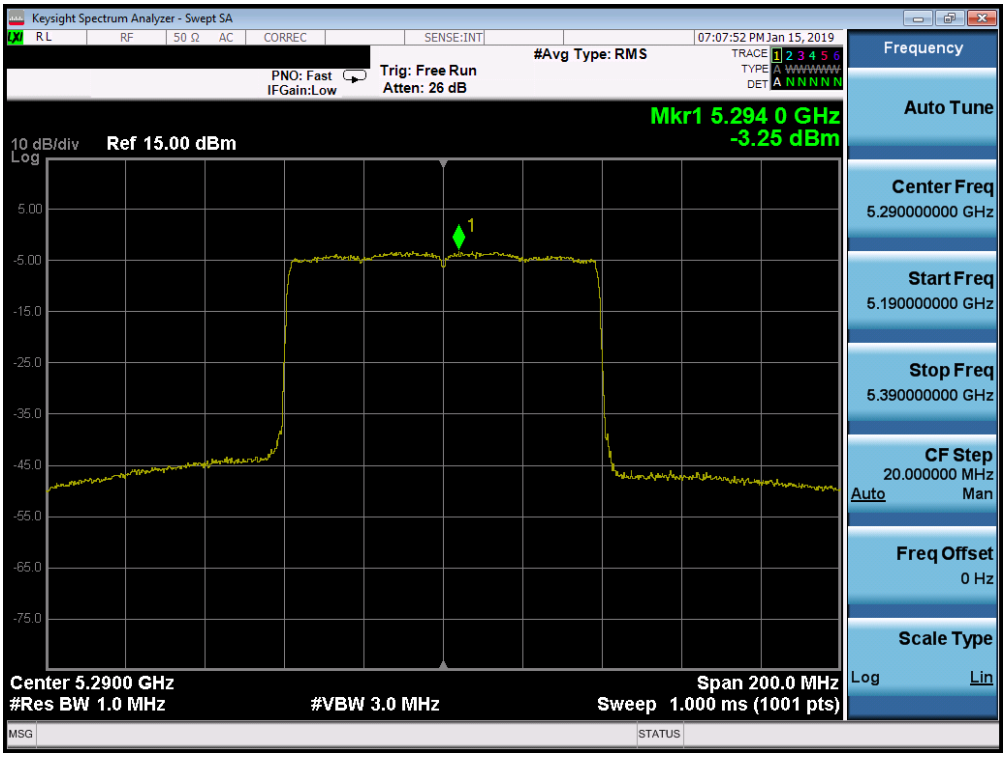


Plot 7-361. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 1) – Ch. 42)



Plot 7-362. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 2A) – Ch. 58)

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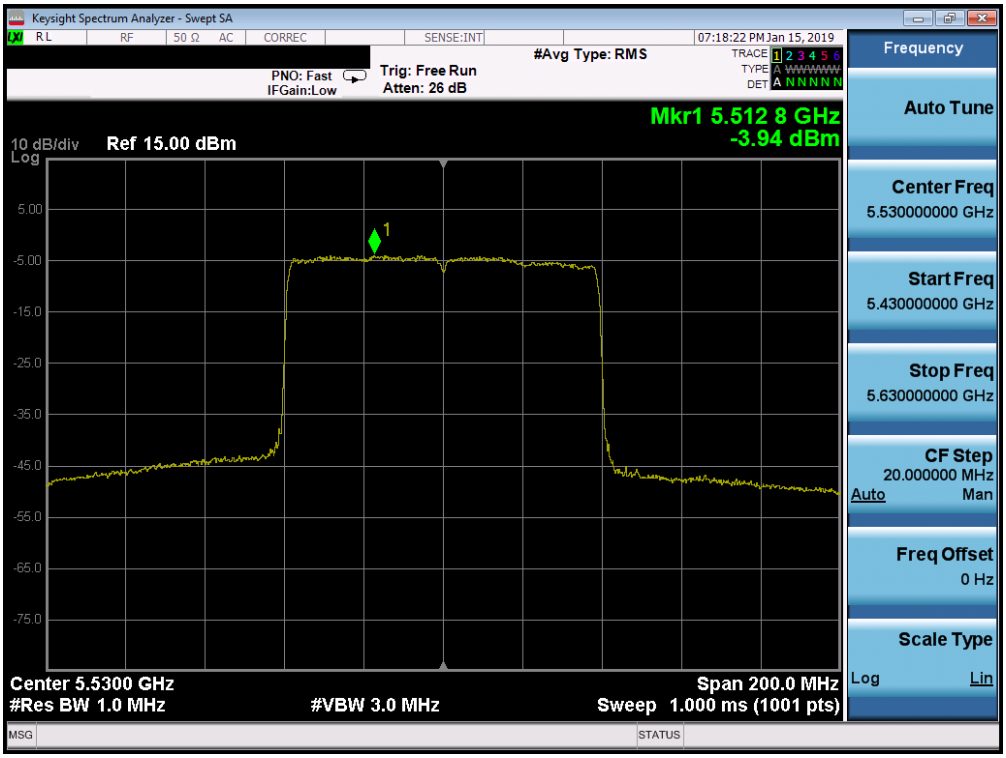
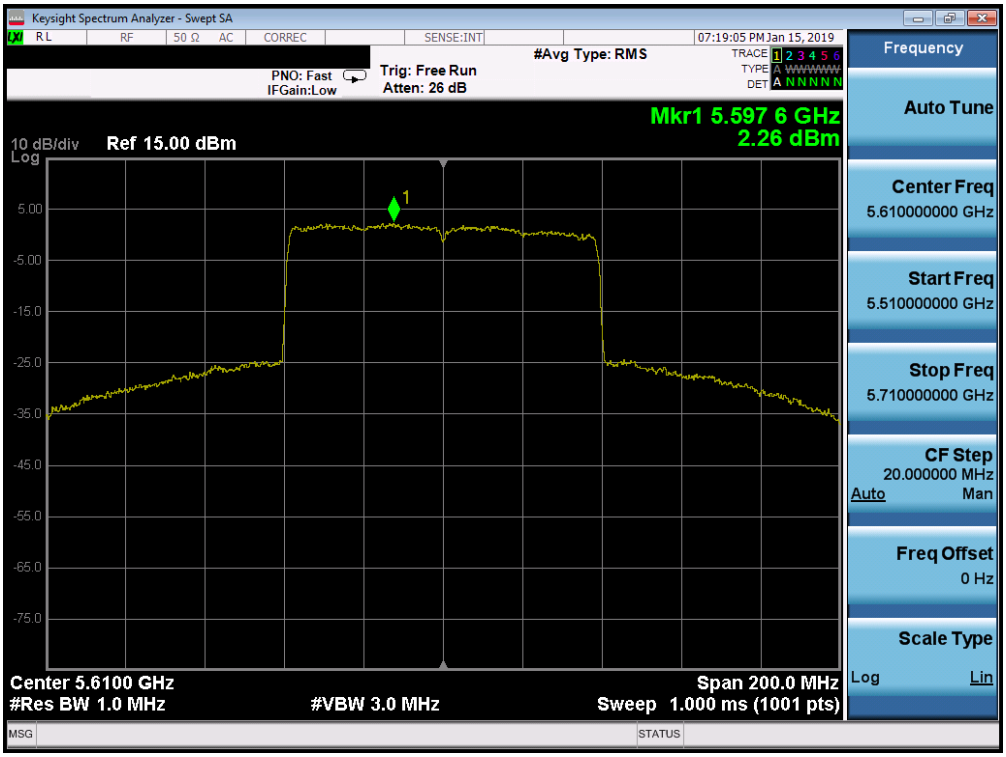


Plot 7-363. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 106)



Plot 7-364. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 122)

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Plot 7-365. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 138)

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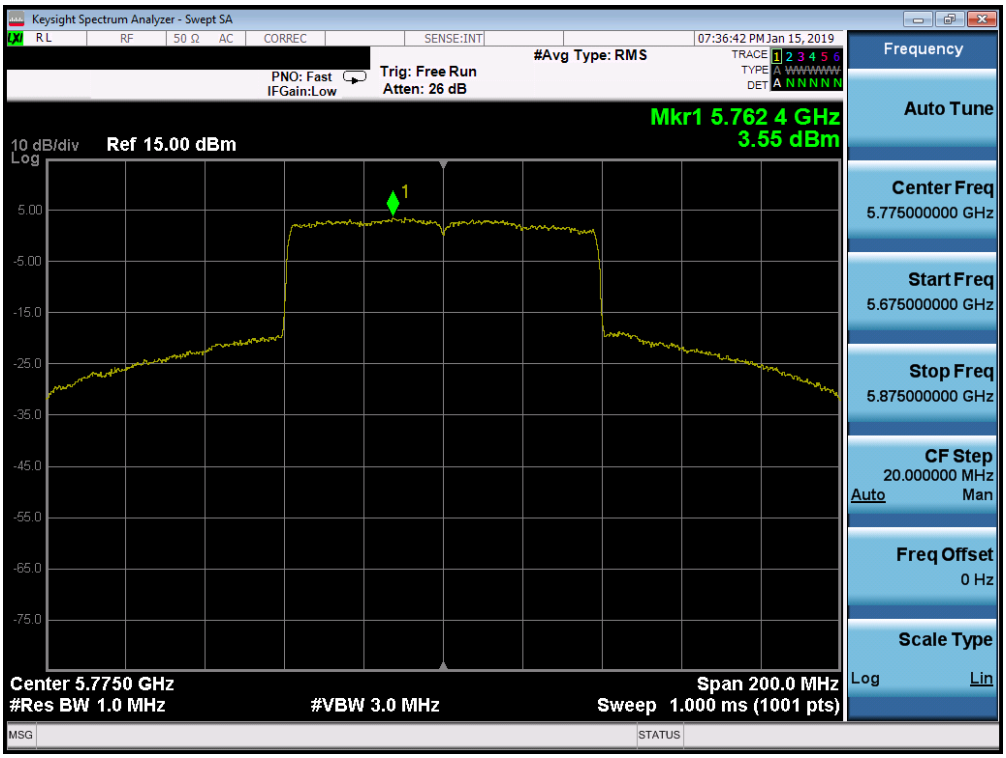
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5775	155	ax (80MHz)	996T	MCS0	3.55	30.00	-26.45

Table 7-98. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (996 Tones)



Plot 7-366. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)

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MIMO Power Spectral Density Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	5.76	6.08	8.93	11.00	-2.07
	5200	40	ax (20MHz)	26T	MCS0	5.51	5.53	8.53	11.00	-2.47
	5240	48	ax (20MHz)	26T	MCS0	5.45	5.70	8.59	11.00	-2.41
	5190	38	ax (40MHz)	26T	MCS0	5.51	6.78	9.20	11.00	-1.80
	5230	46	ax (40MHz)	26T	MCS0	4.59	7.45	9.26	11.00	-1.74
	5210	42	ax (80MHz)	26T	MCS0	6.87	6.80	9.85	11.00	-1.15
Band 2A	5260	52	ax (20MHz)	26T	MCS0	6.34	7.30	9.86	11.00	-1.14
	5280	56	ax (20MHz)	26T	MCS0	6.12	6.06	9.10	11.00	-1.90
	5320	64	ax (20MHz)	26T	MCS0	5.38	6.37	8.91	11.00	-2.09
	5270	54	ax (40MHz)	26T	MCS0	7.40	5.06	9.40	11.00	-1.60
	5310	62	ax (40MHz)	26T	MCS0	5.77	3.76	7.89	11.00	-3.11
	5290	58	ax (80MHz)	26T	MCS0	5.54	5.84	8.70	11.00	-2.30
Bnad 2C	5500	100	ax (20MHz)	26T	MCS0	4.68	4.80	7.75	11.00	-3.25
	5600	120	ax (20MHz)	26T	MCS0	6.10	5.20	8.68	11.00	-2.32
	5720	144	ax (20MHz)	26T	MCS0	5.63	4.97	8.32	11.00	-2.68
	5510	102	ax (40MHz)	26T	MCS0	4.50	2.73	6.71	11.00	-4.29
	5590	118	ax (40MHz)	26T	MCS0	4.66	1.59	6.40	11.00	-4.60
	5710	142	ax (40MHz)	26T	MCS0	4.42	1.00	6.05	11.00	-4.95
	5530	106	ax (80MHz)	26T	MCS0	6.10	5.43	8.79	11.00	-2.21
	5610	122	ax (80MHz)	26T	MCS0	5.42	5.60	8.52	11.00	-2.48
	5690	138	ax (80MHz)	26T	MCS0	6.75	7.12	9.95	11.00	-1.05

Table 7-99. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	5.76	6.08	8.93	-4.81	4.13	10.0	-5.87
	5200	40	ax (20MHz)	26T	MCS0	5.51	5.53	8.53	-4.53	4.00	10.0	-6.00
	5240	48	ax (20MHz)	26T	MCS0	5.45	5.70	8.59	-4.71	3.88	10.0	-6.12
	5190	38	ax (40MHz)	26T	MCS0	5.51	6.78	9.20	-4.53	4.67	10.0	-5.33
	5230	46	ax (40MHz)	26T	MCS0	4.59	7.45	9.26	-4.71	4.56	10.0	-5.44
	5210	42	ax (80MHz)	26T	MCS0	6.87	6.80	9.85	-4.53	5.32	10.0	-4.68

Table 7-100. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	26T	MCS0	5.63	5.97	8.81	30.00	-21.19
	5785	157	ax (20MHz)	26T	MCS0	5.88	5.54	8.72	30.00	-21.28
	5825	165	ax (20MHz)	26T	MCS0	4.61	4.34	7.49	30.00	-22.51
	5755	151	ax (40MHz)	26T	MCS0	5.59	7.53	9.68	30.00	-20.32
	5795	159	ax (40MHz)	26T	MCS0	4.54	6.32	8.53	30.00	-21.47
	5775	155	ax (80MHz)	26T	MCS0	7.37	7.61	10.50	30.00	-19.50

Table 7-101. Bands 3 Conducted Power Spectral Density Measurements MIMO (26 Tones)

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MIMO Power Spectral Density Measurements (52 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	52T	MCS0	5.59	6.19	8.91	11.00	-2.09
	5200	40	ax (20MHz)	52T	MCS0	6.18	6.97	9.60	11.00	-1.40
	5240	48	ax (20MHz)	52T	MCS0	5.54	6.87	9.27	11.00	-1.73
	5190	38	ax (40MHz)	52T	MCS0	4.71	6.01	8.42	11.00	-2.58
	5230	46	ax (40MHz)	52T	MCS0	3.66	4.93	7.35	11.00	-3.65
	5210	42	ax (80MHz)	52T	MCS0	6.45	6.13	9.30	11.00	-1.70
Band 2A	5260	52	ax (20MHz)	52T	MCS0	5.26	3.48	7.47	11.00	-3.53
	5280	56	ax (20MHz)	52T	MCS0	5.86	6.45	9.18	11.00	-1.82
	5320	64	ax (20MHz)	52T	MCS0	6.04	6.38	9.22	11.00	-1.78
	5270	54	ax (40MHz)	52T	MCS0	5.10	3.37	7.33	11.00	-3.67
	5310	62	ax (40MHz)	52T	MCS0	5.19	3.08	7.27	11.00	-3.73
	5290	58	ax (80MHz)	52T	MCS0	6.55	5.90	9.25	11.00	-1.75
Bnad 2C	5500	100	ax (20MHz)	52T	MCS0	5.42	5.00	8.23	11.00	-2.77
	5600	120	ax (20MHz)	52T	MCS0	5.43	4.53	8.01	11.00	-2.99
	5720	144	ax (20MHz)	52T	MCS0	4.83	4.60	7.73	11.00	-3.27
	5510	102	ax (40MHz)	52T	MCS0	3.82	2.09	6.05	11.00	-4.95
	5590	118	ax (40MHz)	52T	MCS0	2.67	1.54	5.15	11.00	-5.85
	5710	142	ax (40MHz)	52T	MCS0	3.81	1.21	5.71	11.00	-5.29
	5530	106	ax (80MHz)	52T	MCS0	6.24	6.71	9.49	11.00	-1.51
	5610	122	ax (80MHz)	52T	MCS0	5.88	6.38	9.15	11.00	-1.85
	5690	138	ax (80MHz)	52T	MCS0	5.89	6.17	9.04	11.00	-1.96

Table 7-102. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements MIMO (52 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	52T	MCS0	5.59	6.19	8.91	-4.81	4.10	10.0	-5.90
	5200	40	ax (20MHz)	52T	MCS0	6.18	6.97	9.60	-4.53	5.07	10.0	-4.93
	5240	48	ax (20MHz)	52T	MCS0	5.54	6.87	9.27	-4.71	4.56	10.0	-5.44
	5190	38	ax (40MHz)	52T	MCS0	4.71	6.01	8.42	-4.53	3.89	10.0	-6.11
	5230	46	ax (40MHz)	52T	MCS0	3.66	4.93	7.35	-4.71	2.65	10.0	-7.35
	5210	42	ax (80MHz)	52T	MCS0	6.45	6.13	9.30	-4.53	4.77	10.0	-5.23

Table 7-103. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 52 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	52T	MCS0	5.15	4.69	7.94	30.00	-22.06
	5785	157	ax (20MHz)	52T	MCS0	4.97	5.01	8.00	30.00	-22.00
	5825	165	ax (20MHz)	52T	MCS0	4.65	5.09	7.89	30.00	-22.11
	5755	151	ax (40MHz)	52T	MCS0	3.58	5.37	7.58	30.00	-22.42
	5795	159	ax (40MHz)	52T	MCS0	4.54	5.61	8.12	30.00	-21.88
	5775	155	ax (80MHz)	52T	MCS0	7.19	7.18	10.20	30.00	-19.80

Table 7-104. Bands 3 Conducted Power Spectral Density Measurements MIMO (52 Tones)

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MIMO Power Spectral Density Measurements (106 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	106T	MCS0	5.53	6.00	8.78	11.00	-2.22
	5200	40	ax (20MHz)	106T	MCS0	4.48	5.72	8.15	11.00	-2.85
	5240	48	ax (20MHz)	106T	MCS0	4.45	5.62	8.08	11.00	-2.92
	5190	38	ax (40MHz)	106T	MCS0	6.29	4.50	8.50	11.00	-2.50
	5230	46	ax (40MHz)	106T	MCS0	2.68	4.14	6.48	11.00	-4.52
	5210	42	ax (80MHz)	106T	MCS0	5.23	5.53	8.39	11.00	-2.61
Band 2A	5260	52	ax (20MHz)	106T	MCS0	4.33	5.37	7.89	11.00	-3.11
	5280	56	ax (20MHz)	106T	MCS0	4.51	5.40	7.99	11.00	-3.01
	5320	64	ax (20MHz)	106T	MCS0	5.00	5.55	8.29	11.00	-2.71
	5270	54	ax (40MHz)	106T	MCS0	4.79	2.68	6.87	11.00	-4.13
	5310	62	ax (40MHz)	106T	MCS0	5.26	2.79	7.21	11.00	-3.79
	5290	58	ax (80MHz)	106T	MCS0	4.91	5.27	8.10	11.00	-2.90
Bnad 2C	5500	100	ax (20MHz)	106T	MCS0	4.35	4.29	7.33	11.00	-3.67
	5600	120	ax (20MHz)	106T	MCS0	4.52	3.96	7.26	11.00	-3.74
	5720	144	ax (20MHz)	106T	MCS0	4.28	3.51	6.92	11.00	-4.08
	5510	102	ax (40MHz)	106T	MCS0	3.39	1.17	5.43	11.00	-5.57
	5590	118	ax (40MHz)	106T	MCS0	3.40	0.63	5.24	11.00	-5.76
	5710	142	ax (40MHz)	106T	MCS0	3.53	0.12	5.16	11.00	-5.84
	5530	106	ax (80MHz)	106T	MCS0	4.51	5.16	7.86	11.00	-3.14
	5610	122	ax (80MHz)	106T	MCS0	4.62	5.22	7.94	11.00	-3.06
	5690	138	ax (80MHz)	106T	MCS0	4.89	5.34	8.13	11.00	-2.87

Table 7-105. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements MIMO (106 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	106T	MCS0	5.53	6.00	8.78	-4.81	3.97	10.0	-6.03
	5200	40	ax (20MHz)	106T	MCS0	4.48	5.72	8.15	-4.53	3.62	10.0	-6.38
	5240	48	ax (20MHz)	106T	MCS0	4.45	5.62	8.08	-4.71	3.38	10.0	-6.62
	5190	38	ax (40MHz)	106T	MCS0	6.29	4.50	8.50	-4.53	3.97	10.0	-6.03
	5230	46	ax (40MHz)	106T	MCS0	2.68	4.14	6.48	-4.71	1.78	10.0	-8.22
	5210	42	ax (80MHz)	106T	MCS0	5.23	5.53	8.39	-4.53	3.86	10.0	-6.14

Table 7-106. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 106 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	106T	MCS0	4.15	4.10	7.14	30.00	-22.86
	5785	157	ax (20MHz)	106T	MCS0	4.22	4.29	7.27	30.00	-22.73
	5825	165	ax (20MHz)	106T	MCS0	4.26	3.59	6.95	30.00	-23.05
	5755	151	ax (40MHz)	106T	MCS0	2.31	4.24	6.39	30.00	-23.61
	5795	159	ax (40MHz)	106T	MCS0	2.60	4.76	6.82	30.00	-23.18
	5775	155	ax (80MHz)	106T	MCS0	5.48	5.99	8.75	30.00	-21.25

Table 7-107. Bands 3 Conducted Power Spectral Density Measurements MIMO (106 Tones)

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MIMO Power Spectral Density Measurements (242 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	1.67	2.58	5.16	11.00	-5.84
	5200	40	ax (20MHz)	242T	MCS0	4.43	5.30	7.90	11.00	-3.10
	5240	48	ax (20MHz)	242T	MCS0	4.57	5.61	8.13	11.00	-2.87
	5190	38	ax (40MHz)	242T	MCS0	-1.01	-0.06	2.50	11.00	-8.50
	5230	46	ax (40MHz)	242T	MCS0	2.70	3.85	6.32	11.00	-4.68
	5210	42	ax (80MHz)	242T	MCS0	-0.64	-0.83	2.28	11.00	-8.72
Band 2A	5260	52	ax (20MHz)	242T	MCS0	3.79	5.30	7.62	11.00	-3.38
	5280	56	ax (20MHz)	242T	MCS0	4.36	5.07	7.74	11.00	-3.26
	5320	64	ax (20MHz)	242T	MCS0	2.70	3.62	6.19	11.00	-4.81
	5270	54	ax (40MHz)	242T	MCS0	4.23	2.37	6.41	11.00	-4.59
	5310	62	ax (40MHz)	242T	MCS0	-0.59	-2.62	1.52	11.00	-9.48
	5290	58	ax (80MHz)	242T	MCS0	-0.62	-0.68	2.36	11.00	-8.64
Bnad 2C	5500	100	ax (20MHz)	242T	MCS0	3.21	3.51	6.37	11.00	-4.63
	5600	120	ax (20MHz)	242T	MCS0	4.17	3.94	7.07	11.00	-3.93
	5720	144	ax (20MHz)	242T	MCS0	4.06	4.13	7.11	11.00	-3.89
	5510	102	ax (40MHz)	242T	MCS0	-2.38	-4.15	-0.17	11.00	-11.17
	5590	118	ax (40MHz)	242T	MCS0	-2.54	0.70	2.39	11.00	-8.61
	5710	142	ax (40MHz)	242T	MCS0	2.44	-0.09	4.37	11.00	-6.63
	5530	106	ax (80MHz)	242T	MCS0	4.49	-1.01	5.57	11.00	-5.43
	5610	122	ax (80MHz)	242T	MCS0	4.69	5.03	7.87	11.00	-3.13
	5690	138	ax (80MHz)	242T	MCS0	4.89	5.02	7.97	11.00	-3.03

Table 7-108. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements MIMO (242 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	1.67	2.58	5.16	-4.81	0.35	10.0	-9.65
	5200	40	ax (20MHz)	242T	MCS0	4.43	5.30	7.90	-4.53	3.37	10.0	-6.63
	5240	48	ax (20MHz)	242T	MCS0	4.57	5.61	8.13	-4.71	3.43	10.0	-6.57
	5190	38	ax (40MHz)	242T	MCS0	-1.01	-0.06	2.50	-4.53	-2.03	10.0	-12.03
	5230	46	ax (40MHz)	242T	MCS0	2.70	3.85	6.32	-4.71	1.62	10.0	-8.38
	5210	42	ax (80MHz)	242T	MCS0	-0.64	-0.83	2.28	-4.53	-2.25	10.0	-12.25

Table 7-109. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 242 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	242T	MCS0	3.54	3.75	6.66	30.00	-23.34
	5785	157	ax (20MHz)	242T	MCS0	3.78	4.14	6.97	30.00	-23.03
	5825	165	ax (20MHz)	242T	MCS0	3.12	3.83	6.50	30.00	-23.50
	5755	151	ax (40MHz)	242T	MCS0	2.13	4.07	6.22	30.00	-23.78
	5795	159	ax (40MHz)	242T	MCS0	-0.04	5.07	6.24	30.00	-23.76
	5775	155	ax (80MHz)	242T	MCS0	5.07	5.50	8.30	30.00	-21.70

Table 7-110. Bands 3 Conducted Power Spectral Density Measurements MIMO (242 Tones)

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MIMO Power Spectral Density Measurements (484 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5190	38	ax (40MHz)	484T	MCS0	-3.37	-3.74	-0.54	11.00	-11.54
	5230	46	ax (40MHz)	484T	MCS0	-0.38	-0.78	2.43	11.00	-8.57
	5210	42	ax (80MHz)	484T	MCS0	-3.90	-3.47	-0.67	11.00	-11.67
Band 2A	5270	54	ax (40MHz)	484T	MCS0	0.13	-2.33	2.08	11.00	-8.92
	5310	62	ax (40MHz)	484T	MCS0	-3.29	-5.59	-1.28	11.00	-12.28
	5290	58	ax (80MHz)	484T	MCS0	-3.28	-2.95	-0.10	11.00	-11.10
Band 2C	5510	102	ax (40MHz)	484T	MCS0	-5.40	-8.00	-3.50	11.00	-14.50
	5590	118	ax (40MHz)	484T	MCS0	-1.44	-3.96	0.49	11.00	-10.51
	5710	142	ax (40MHz)	484T	MCS0	-1.36	-4.74	0.28	11.00	-10.72
	5530	106	ax (80MHz)	484T	MCS0	-3.24	-3.36	-0.29	11.00	-11.29
	5610	122	ax (80MHz)	484T	MCS0	0.94	0.99	3.98	11.00	-7.02
	5690	138	ax (80MHz)	484T	MCS0	0.91	0.63	3.78	11.00	-7.22

Table 7-111. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements MIMO (484 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5190	38	ax (40MHz)	484T	MCS0	-3.37	-3.74	-0.54	-4.53	-5.07	10.0	-15.07
	5230	46	ax (40MHz)	484T	MCS0	-0.38	-0.78	2.43	-4.71	-2.27	10.0	-12.27
	5210	42	ax (80MHz)	484T	MCS0	-3.90	-3.47	-0.67	-4.53	-5.20	10.0	-15.20

Table 7-112. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 484 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5755	151	ax (40MHz)	484T	MCS0	-1.90	-0.50	1.87	30.00	-28.13
	5795	159	ax (40MHz)	484T	MCS0	-1.32	0.11	2.46	30.00	-27.54
	5775	155	ax (80MHz)	484T	MCS0	1.35	1.45	4.41	30.00	-25.59

Table 7-113. Bands 3 Conducted Power Spectral Density Measurements MIMO (484 Tones)

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MIMO Power Spectral Density Measurements (996 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5210	42	ax (80MHz)	996T	MCS0	-7.18	-6.68	-3.91	11.00	-14.91
Band 2A	5290	58	ax (80MHz)	996T	MCS0	-6.81	-6.77	-3.78	11.00	-14.78
Band 2C	5530	106	ax (80MHz)	996T	MCS0	-7.15	-6.27	-3.68	11.00	-14.68
	5610	122	ax (80MHz)	996T	MCS0	-3.20	-2.39	0.23	11.00	-10.77
	5690	138	ax (80MHz)	996T	MCS0	-3.02	-2.31	0.36	11.00	-10.64

Table 7-114. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements MIMO (996 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5210	42	ax (80MHz)	996T	MCS0	-7.18	-6.68	-3.91	-4.53	-8.44	10.0	-18.44

Table 7-115. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 996 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5775	155	ax (80MHz)	996T	MCS0	-2.56	-1.67	0.92	30.00	-29.08

Table 7-116. Bands 3 Conducted Power Spectral Density Measurements MIMO (996 Tones)

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Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 1 and Antenna 2 were first measured separately with reduced Antenna 1 and Antenna 2 powers per manufacture's tune-up document. The measured values were then summed in linear power units then converted back to dBm.

Sample Directional Gain Calculation:

Assuming the antenna gain is -7.94 dBi for Antenna-1 and -7.70 dBi for Antenna-2.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \ldots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$
$$= 10 \log[(10^{-7.94/20} + 10^{-7.70/20} / 2] \text{ dBi}$$
$$= (-4.81) \text{ dBi}$$

Sample MIMO Calculation:

Assuming the average conducted power spectral density was measured to be 5.76 dBm for Antenna-1 and 6.08 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

(5.76 dBm + 6.08 dBm) = (3.77 mW + 4.06 mW) = 8.93 mW = dBm

Sample e.i.r.p Power Spectral Density Calculation:

Assuming the average MIMO power density was calculated to be 8.93 dBm with directional gain of -4.81 dBi.

e.i.r.p. Power Spectral Density(dBm) = Power Spectral Density (dBm) + directional gain (dBi)

8.93 dBm + (-4.81) dBi = 4.12 dBm

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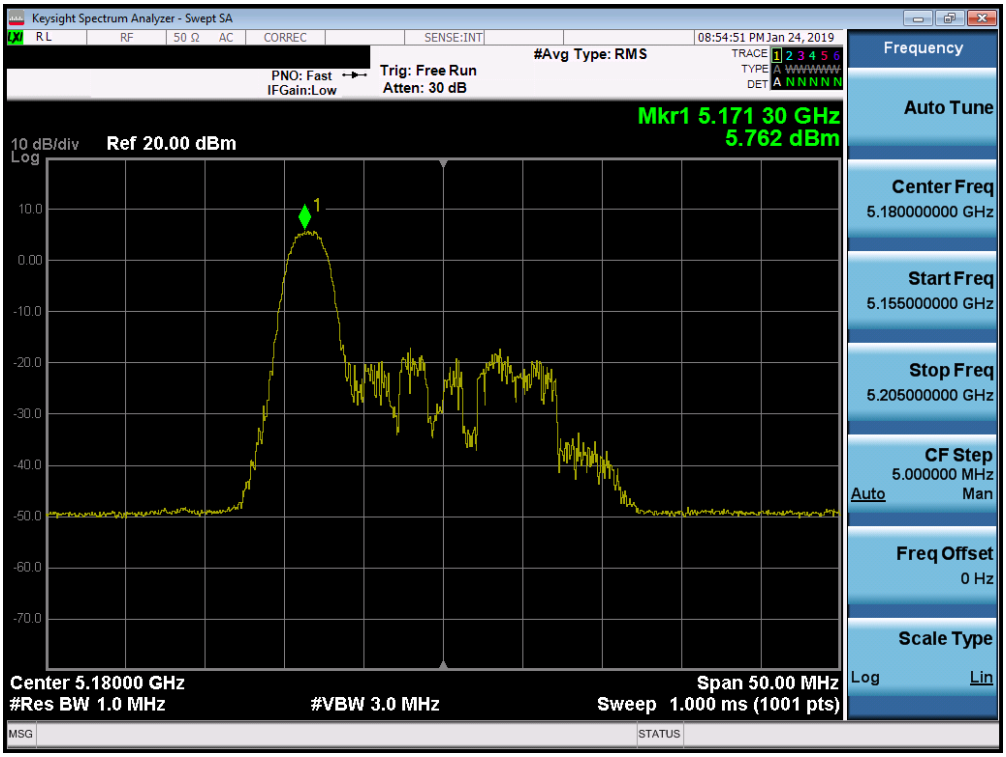
MIMO Antenna-1 Power Spectral Density Measurements (26 Tones)



Plot 7-367. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

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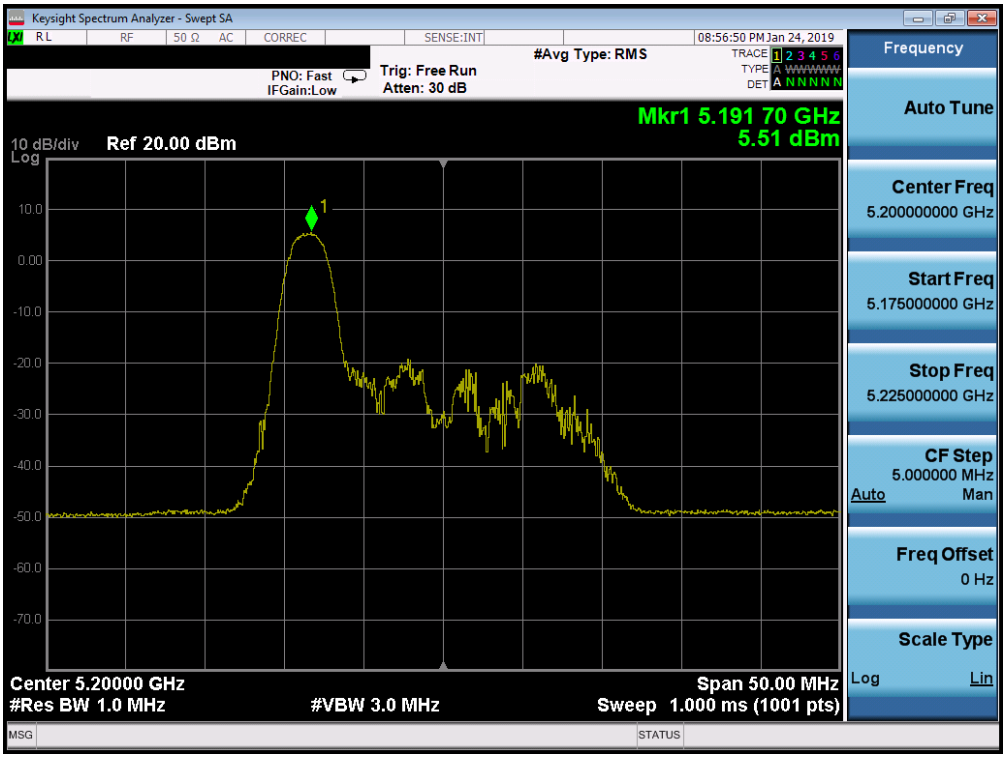
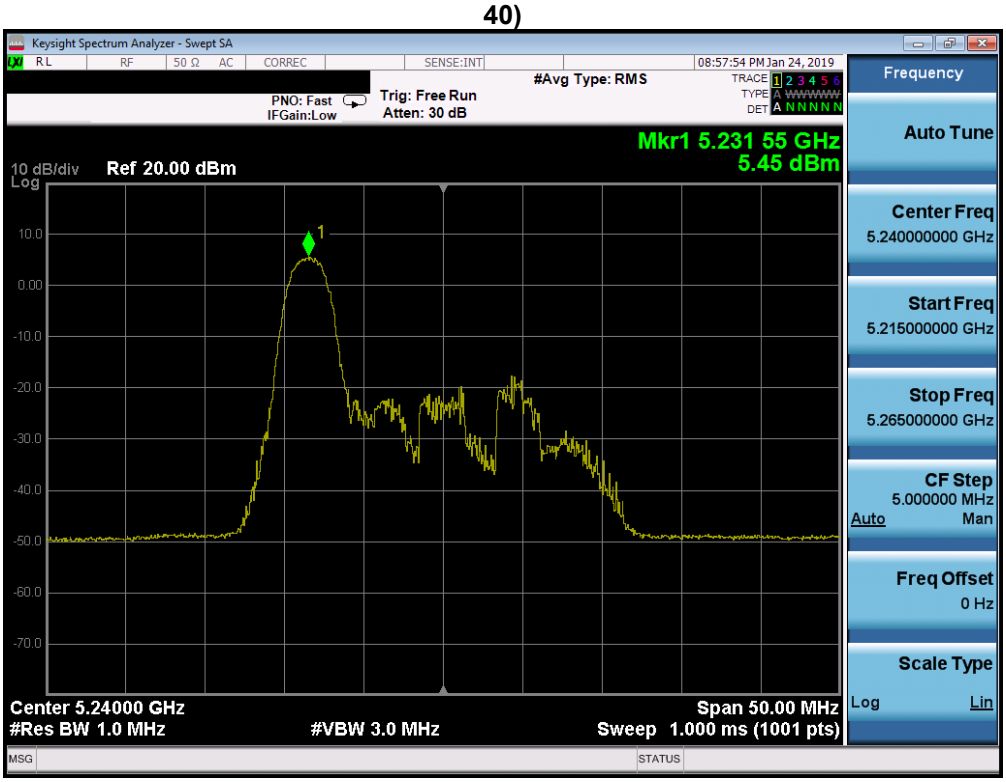


Plot 7-368. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)



Plot 7-369. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

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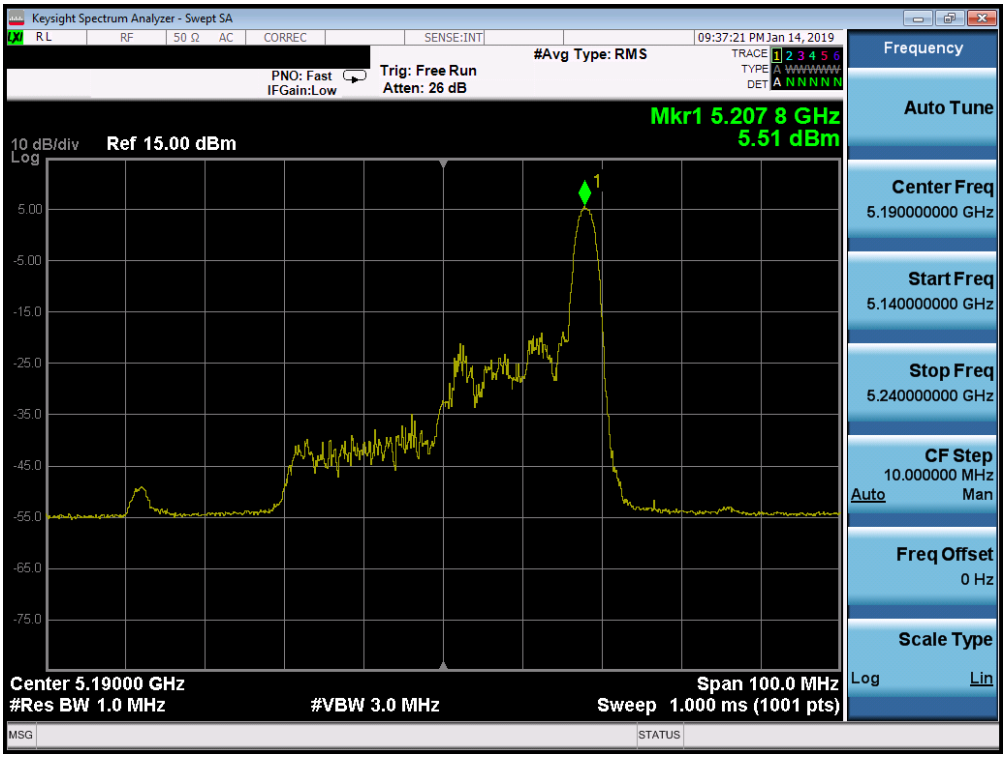
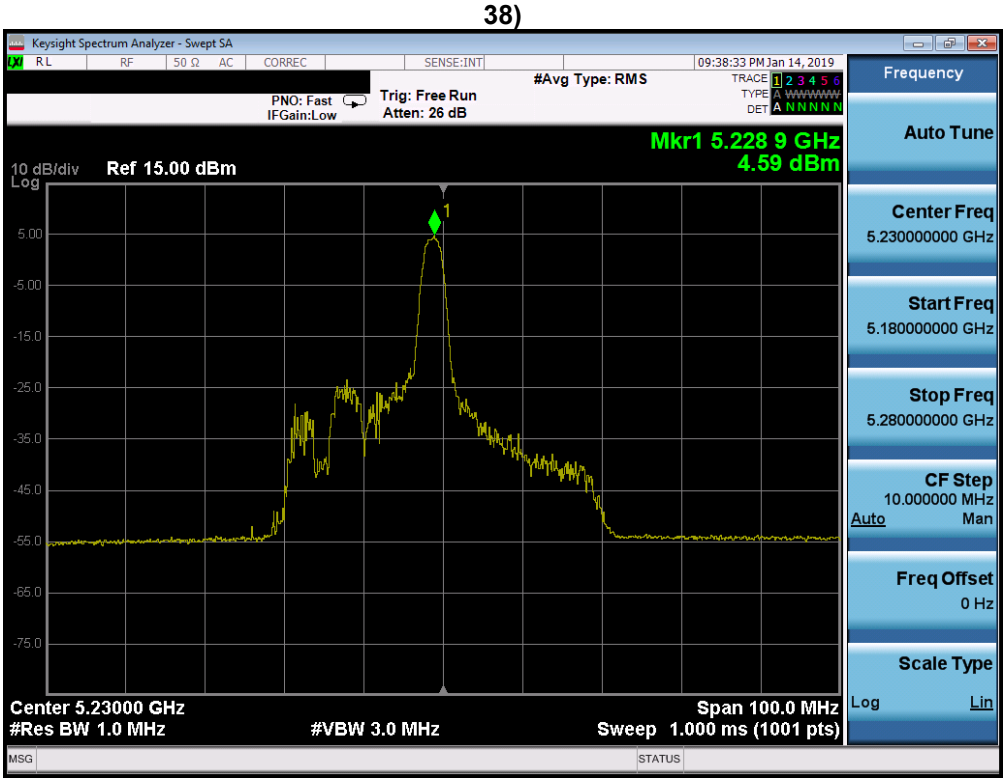


Plot 7-370. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)



Plot 7-371. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

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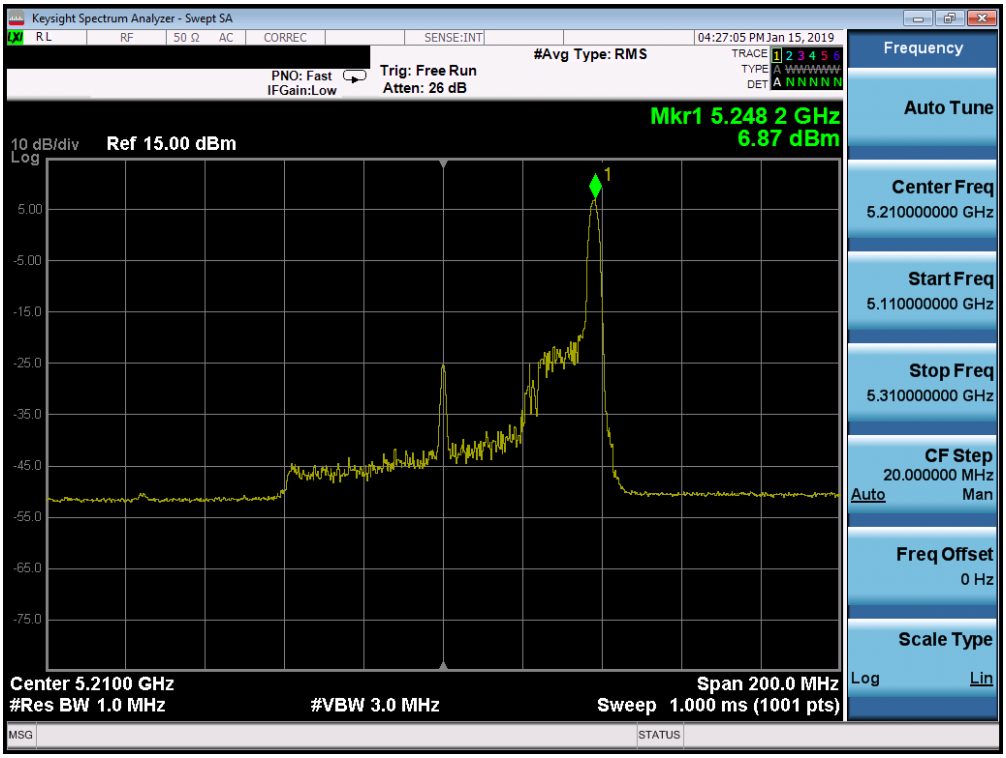
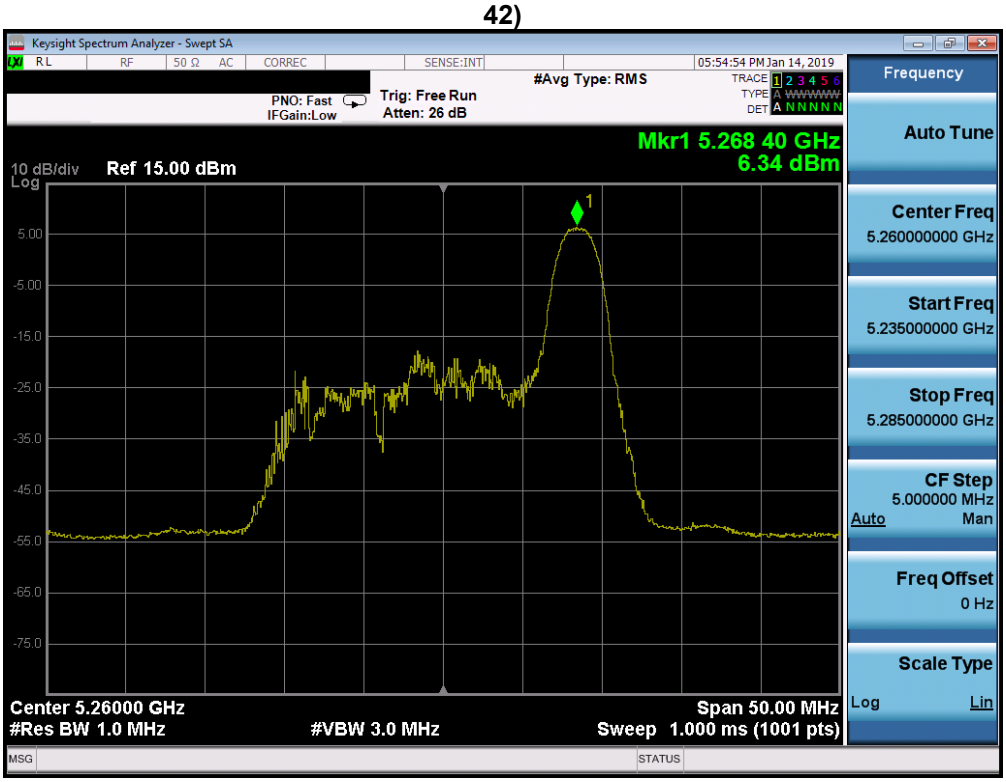


Plot 7-372. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)



Plot 7-373. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

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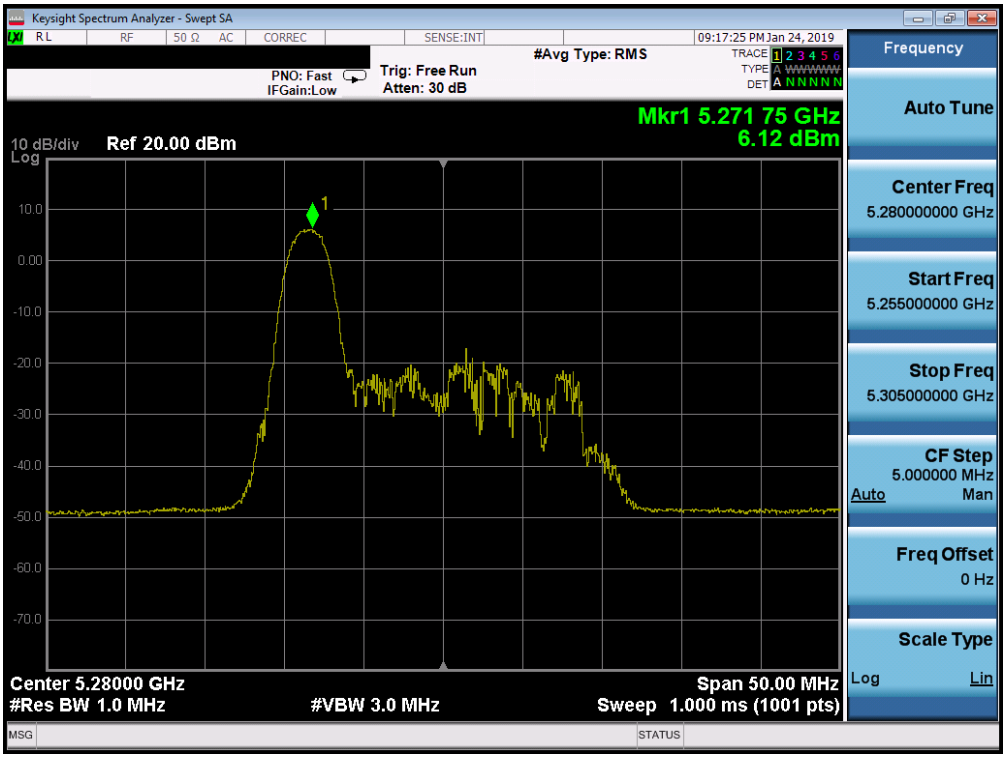
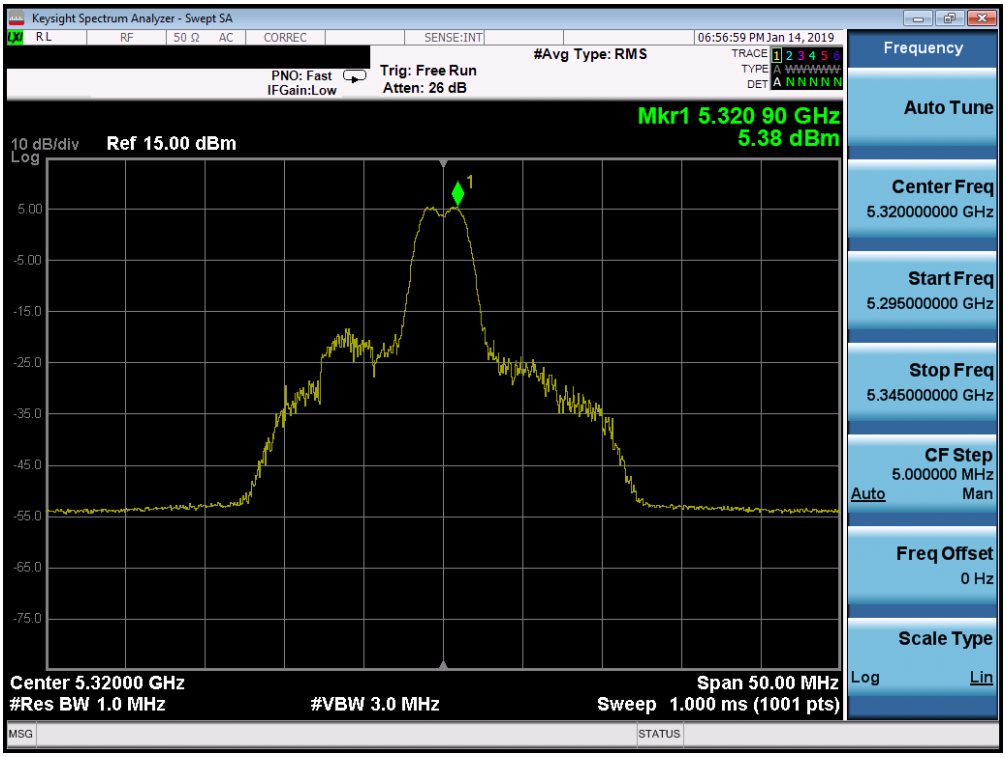


Plot 7-374. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)



Plot 7-375. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

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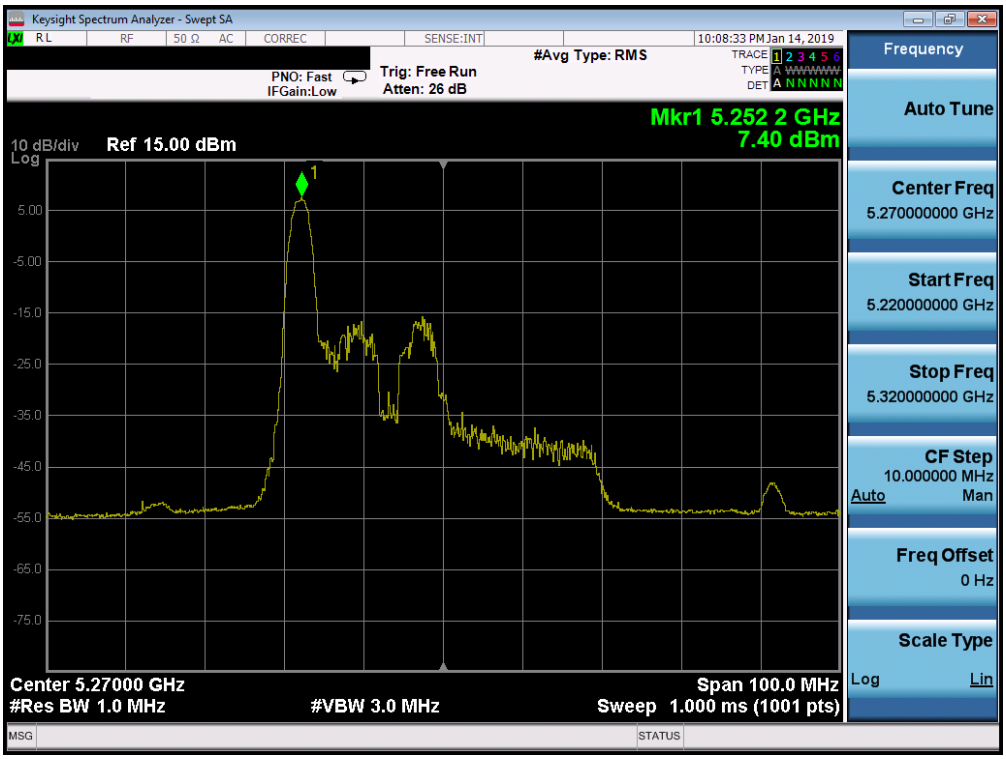
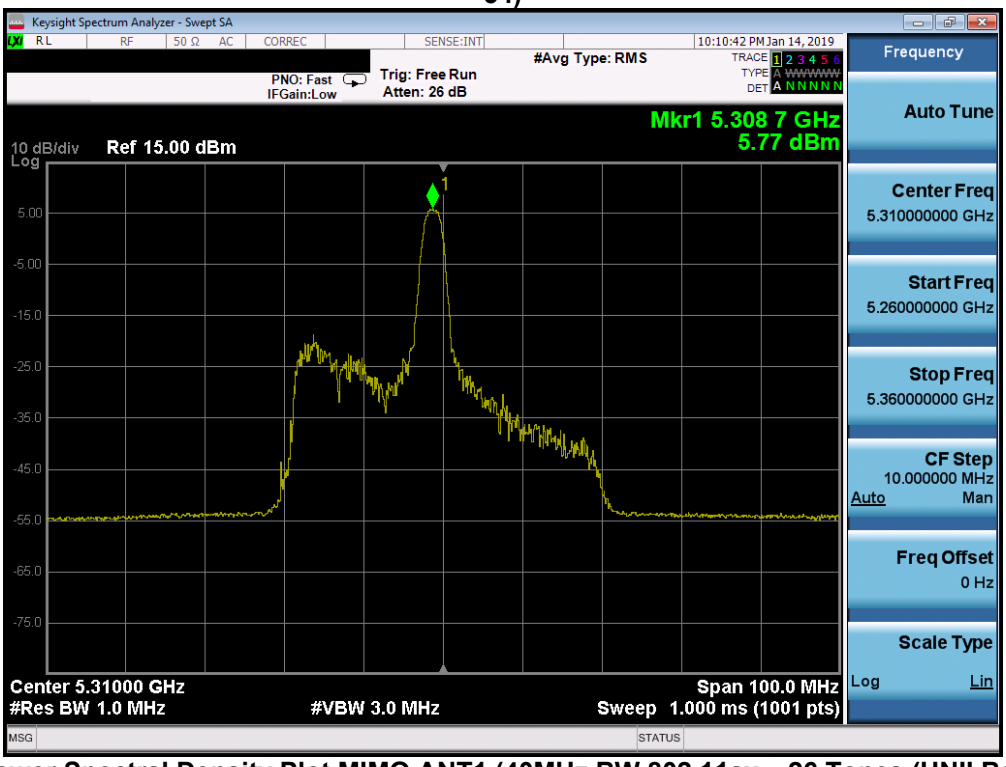


Plot 7-376. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)



Plot 7-377. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

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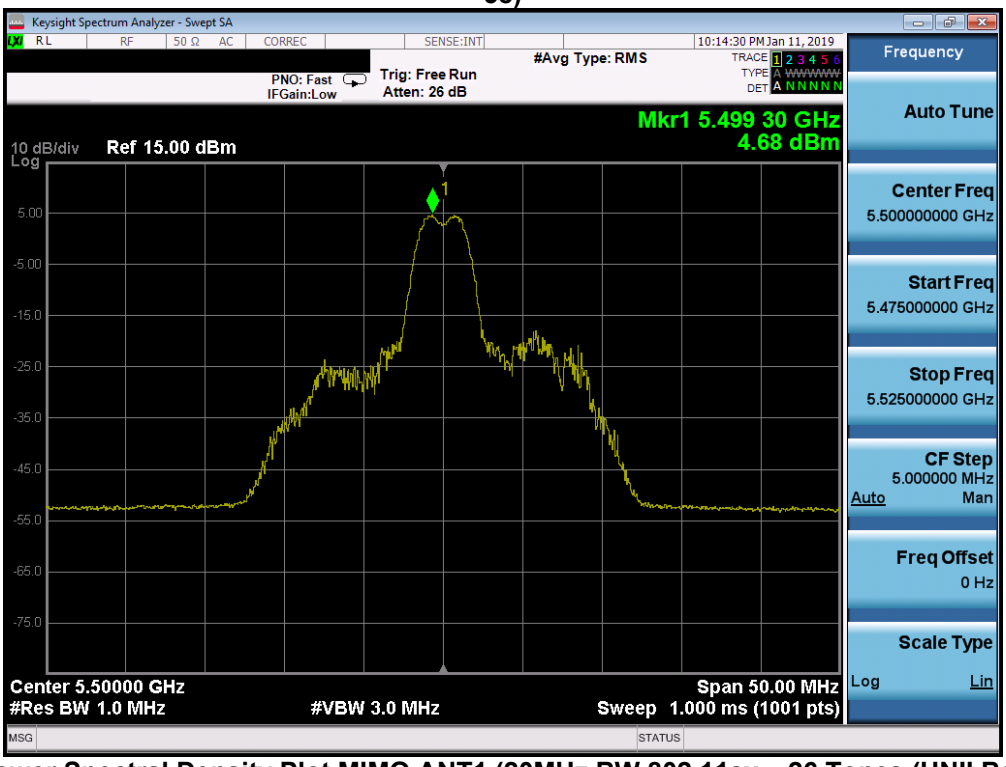
Plot 7-378. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)



Plot 7-379. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

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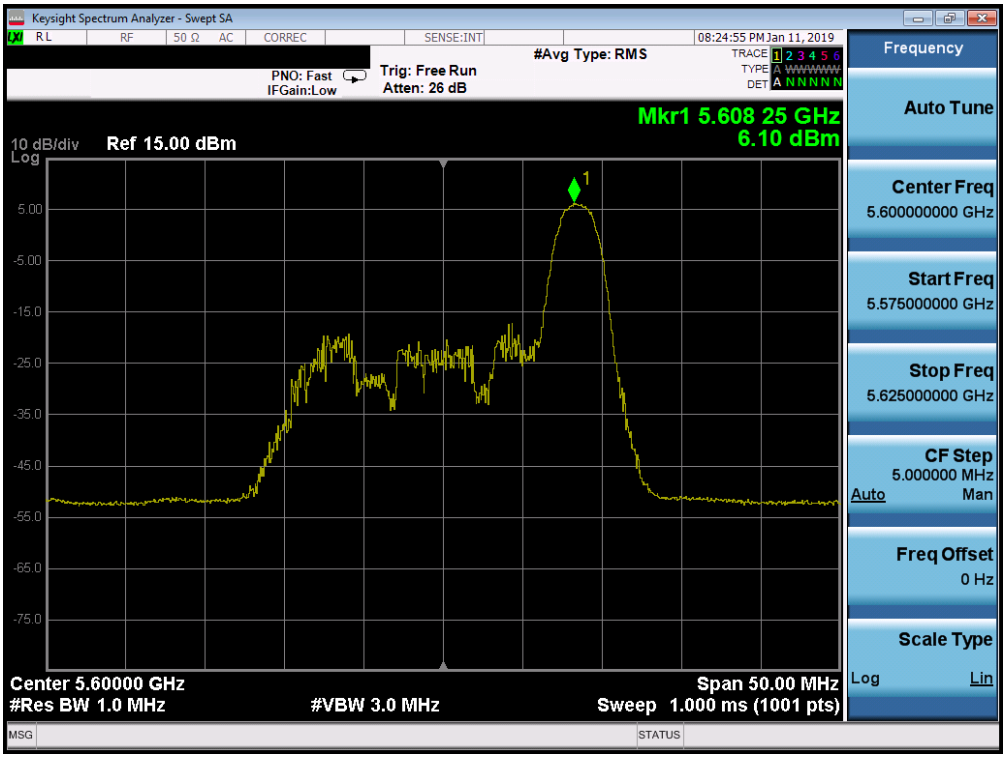
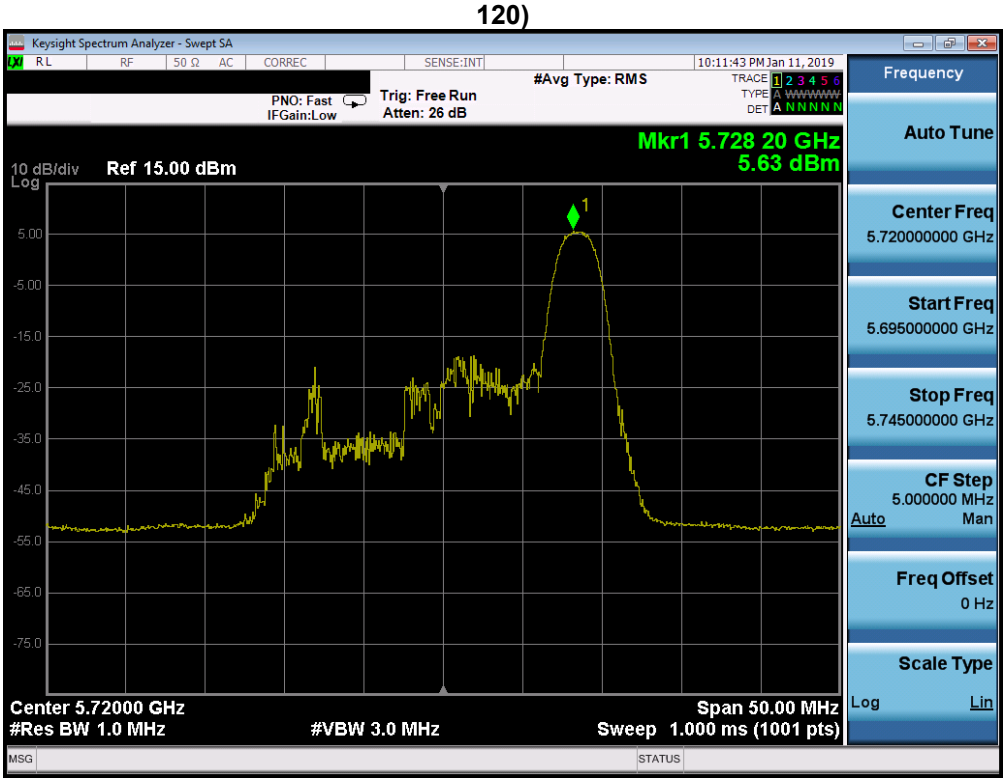


Plot 7-380. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)



Plot 7-381. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

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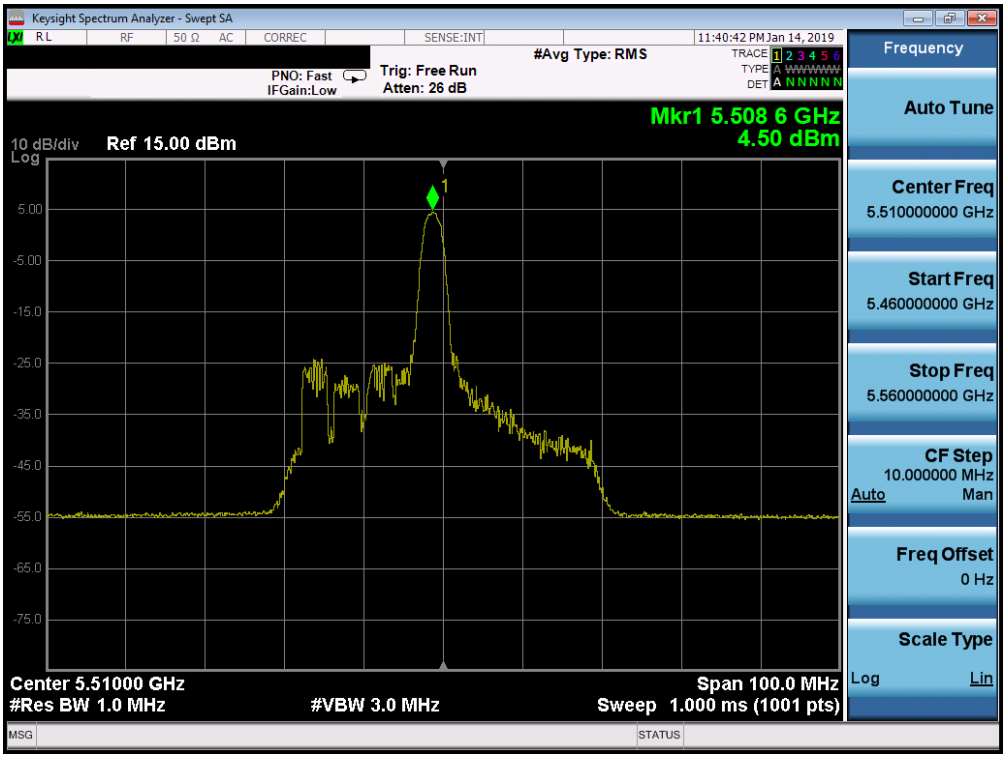
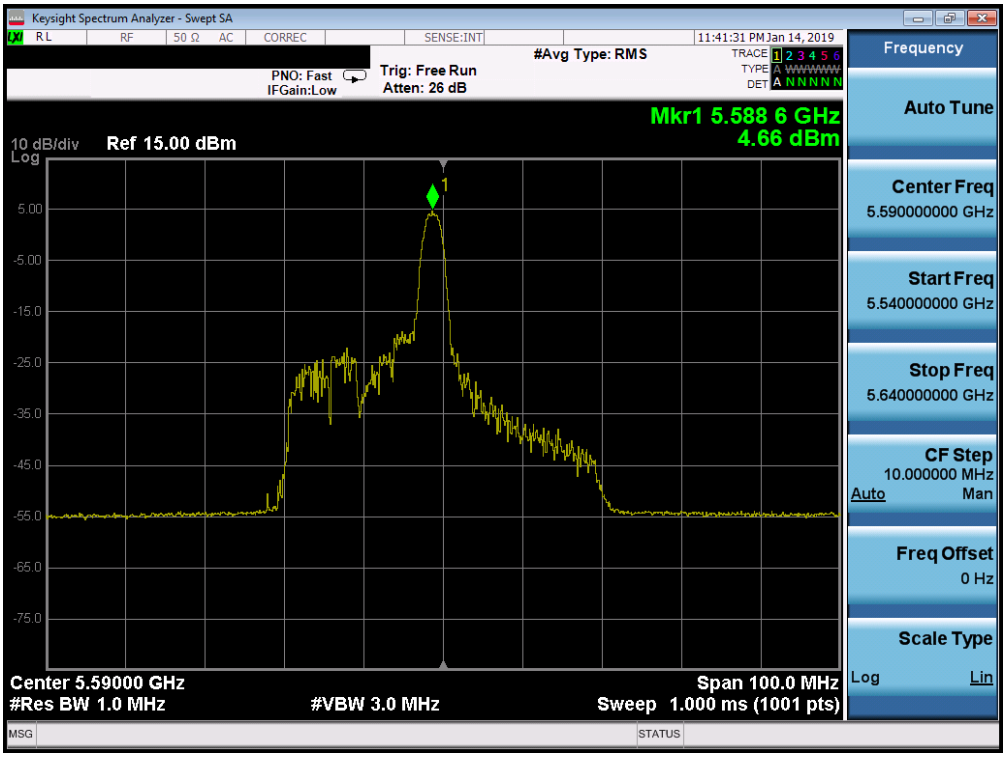


Plot 7-382. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)



Plot 7-383. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

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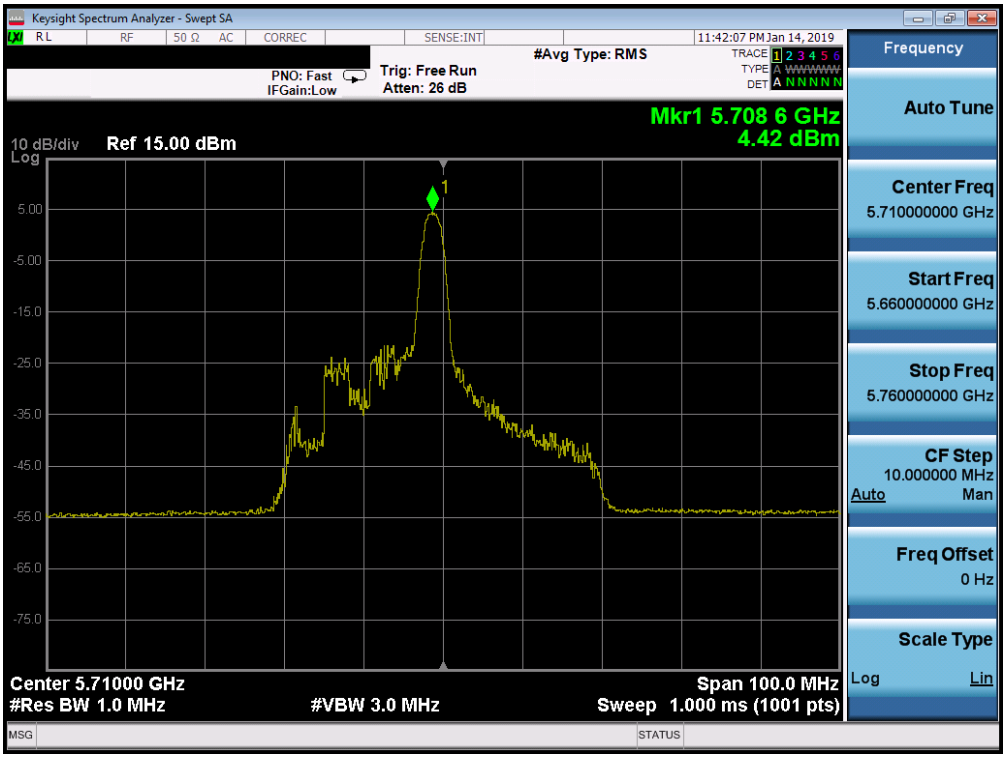
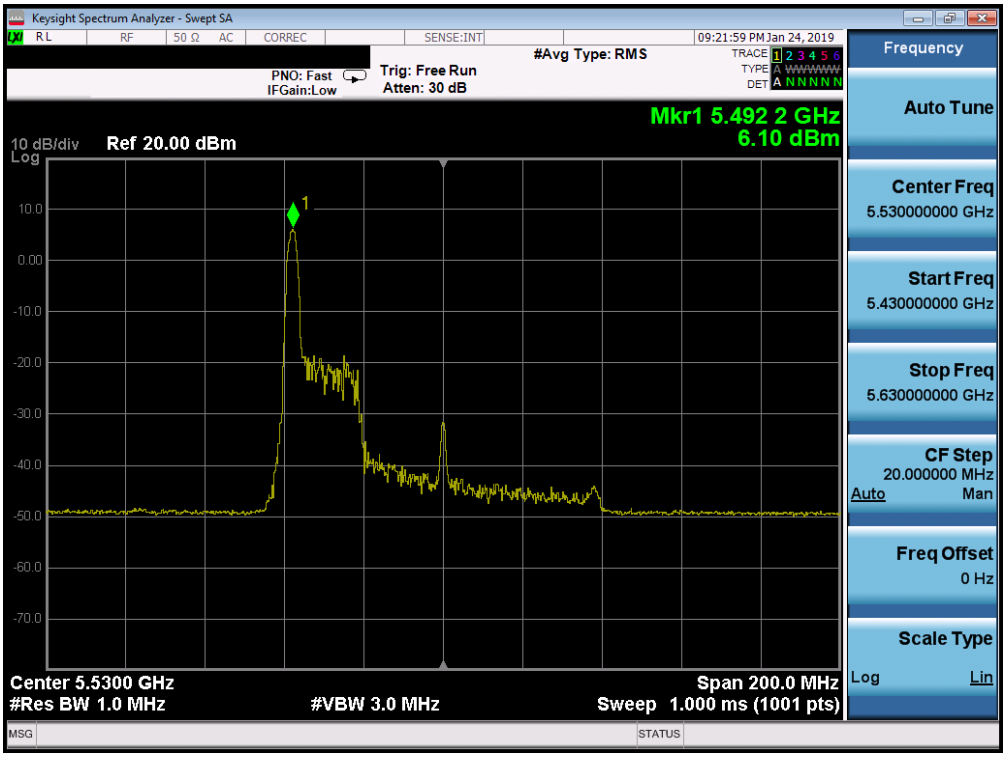


Plot 7-384. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)



Plot 7-385. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

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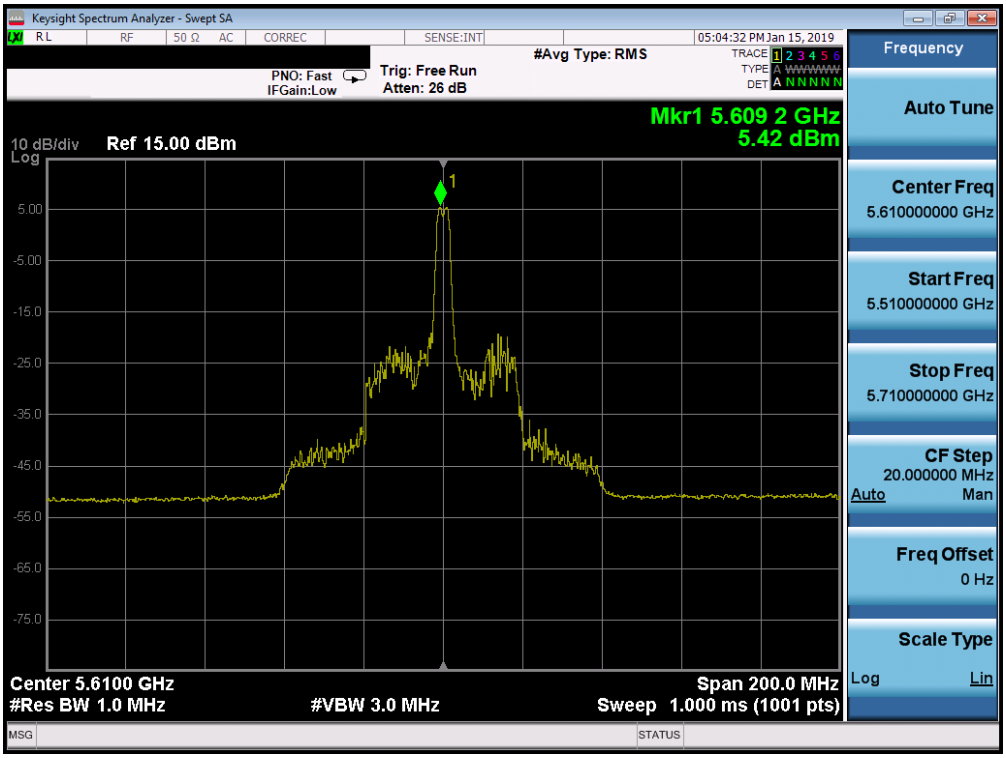
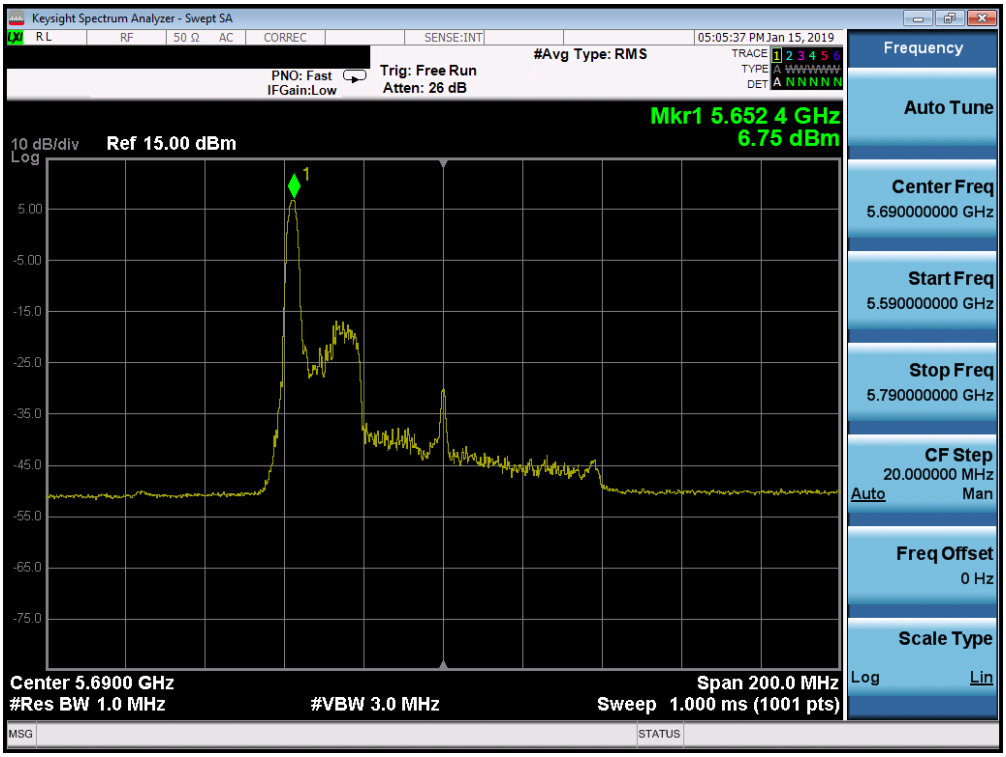


Plot 7-386. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)



Plot 7-387. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

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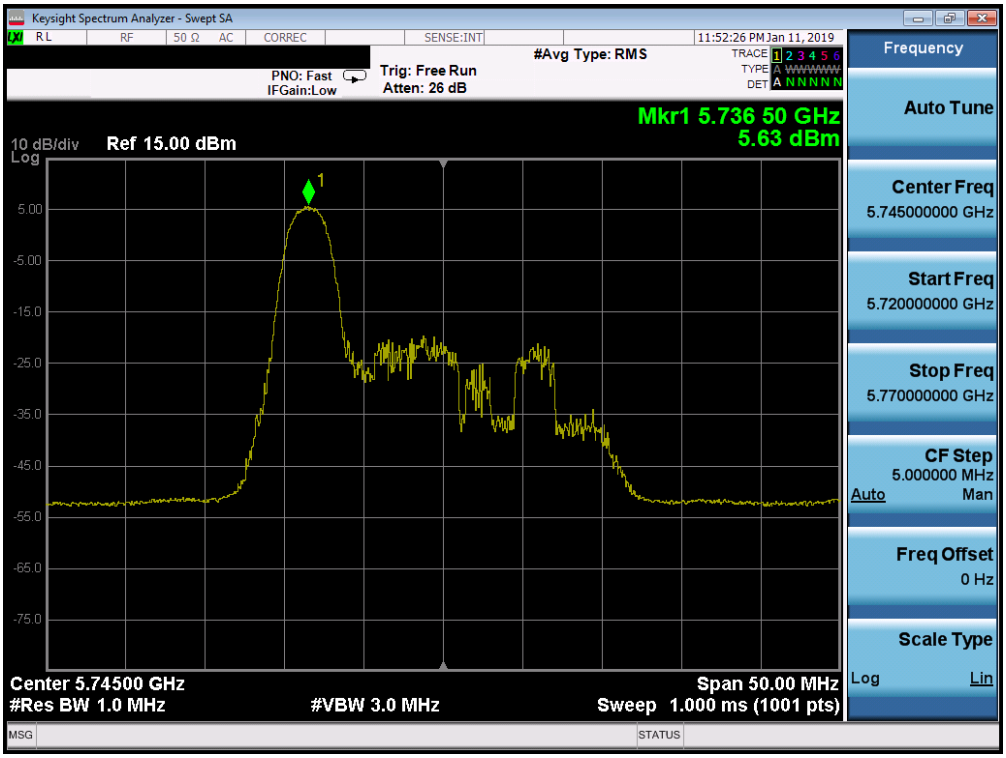
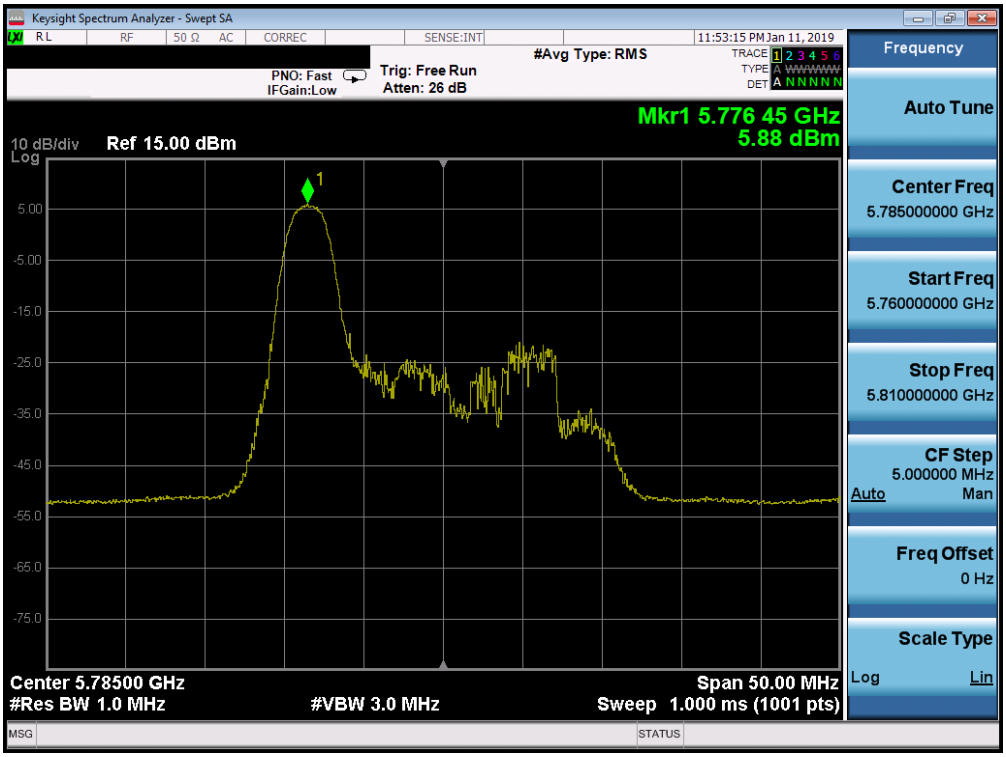


Plot 7-388. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)



Plot 7-389. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

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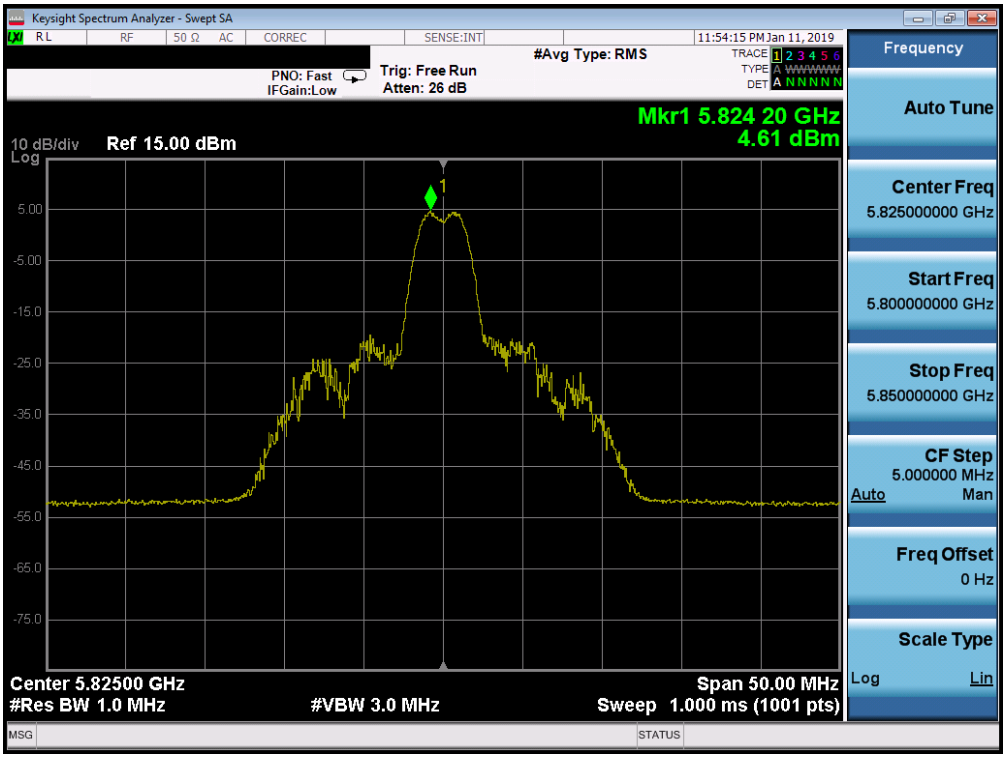
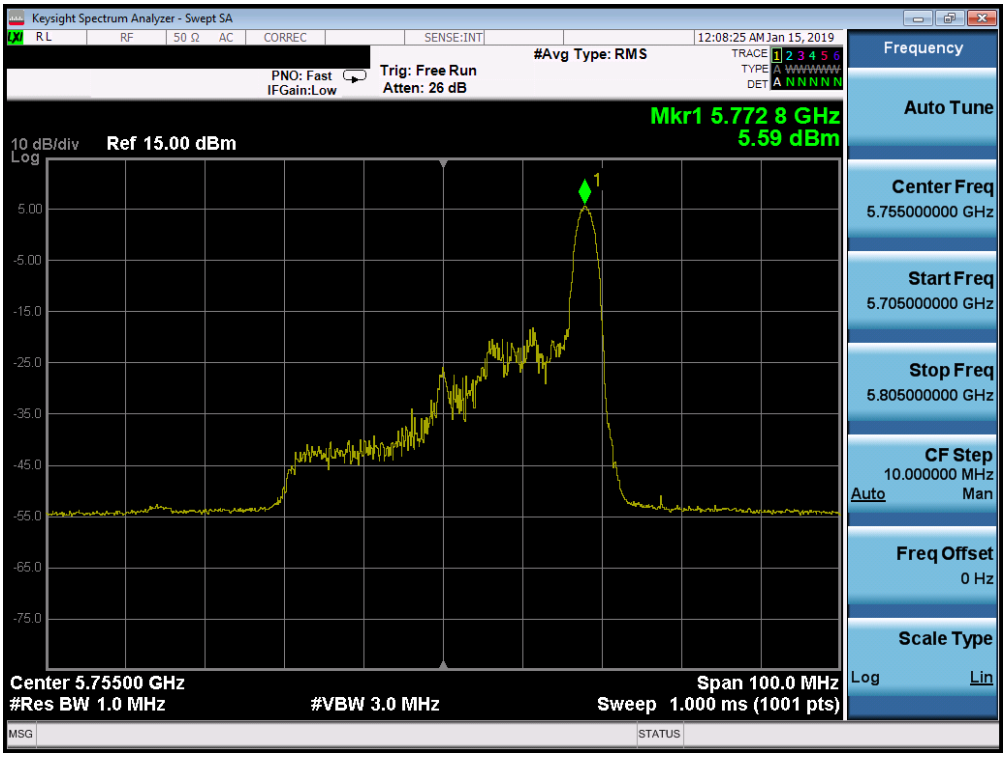


Plot 7-390. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)



Plot 7-391. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

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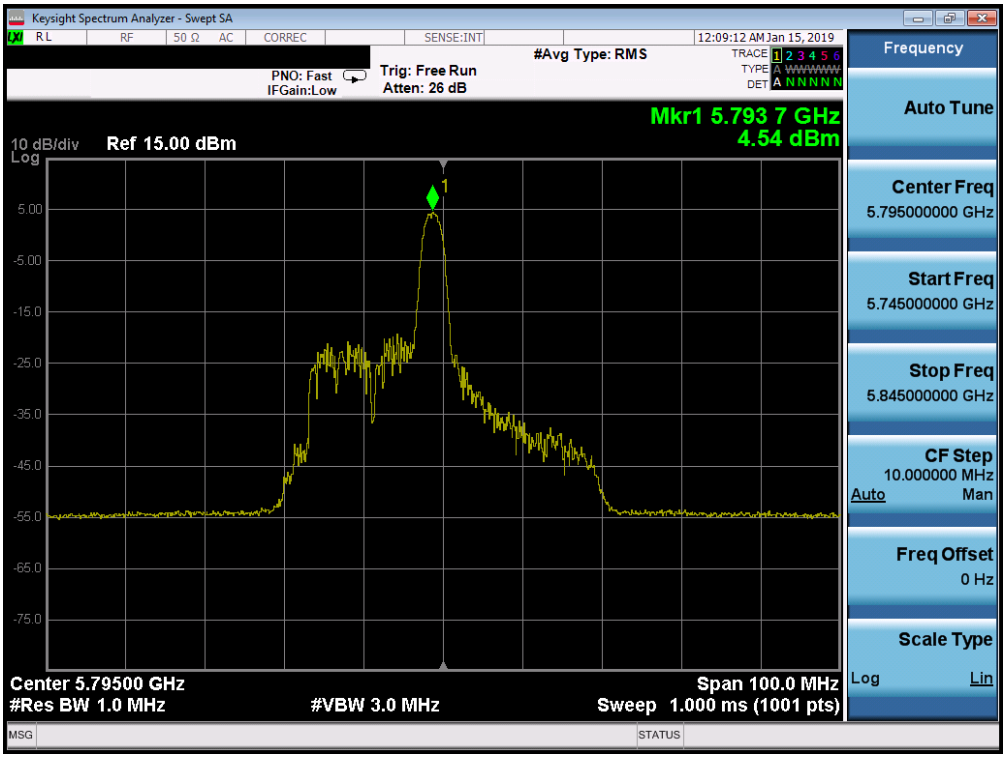
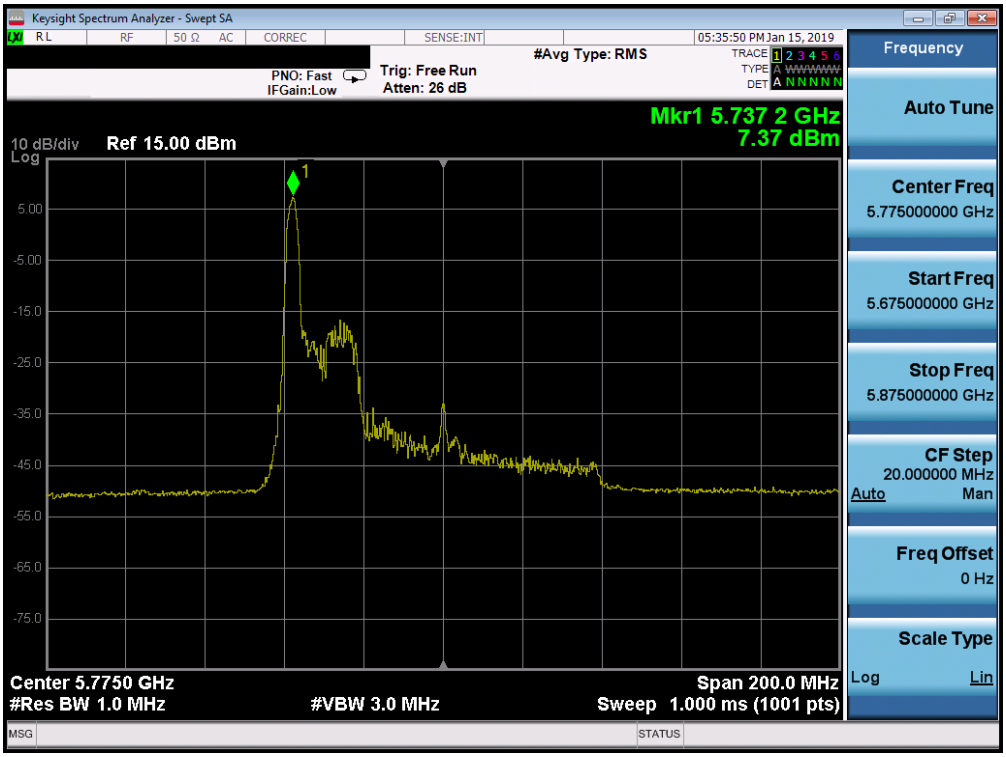


Plot 7-392. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)



Plot 7-393. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

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Plot 7-394. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 36)

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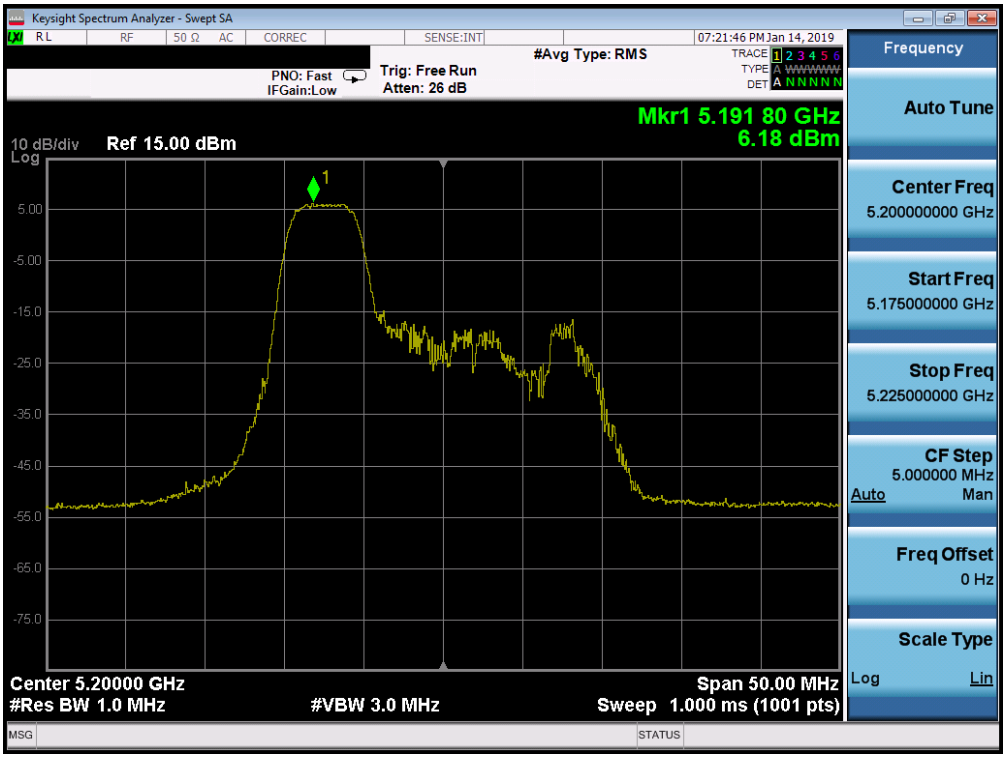
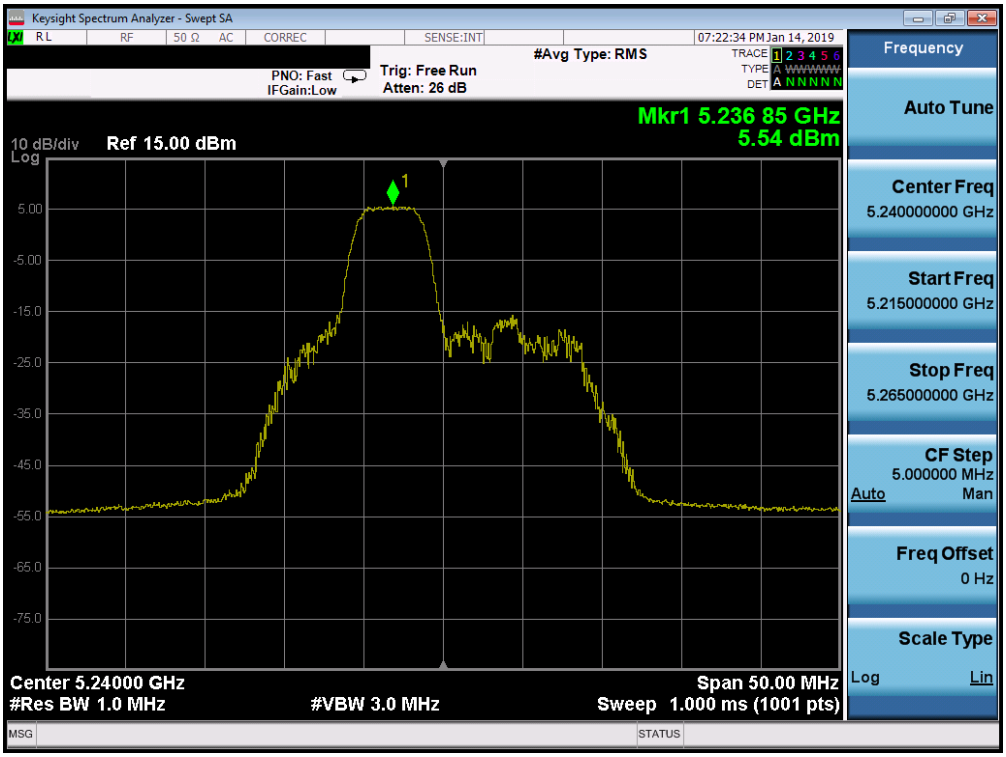


Plot 7-395. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 40)



Plot 7-396. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 48)

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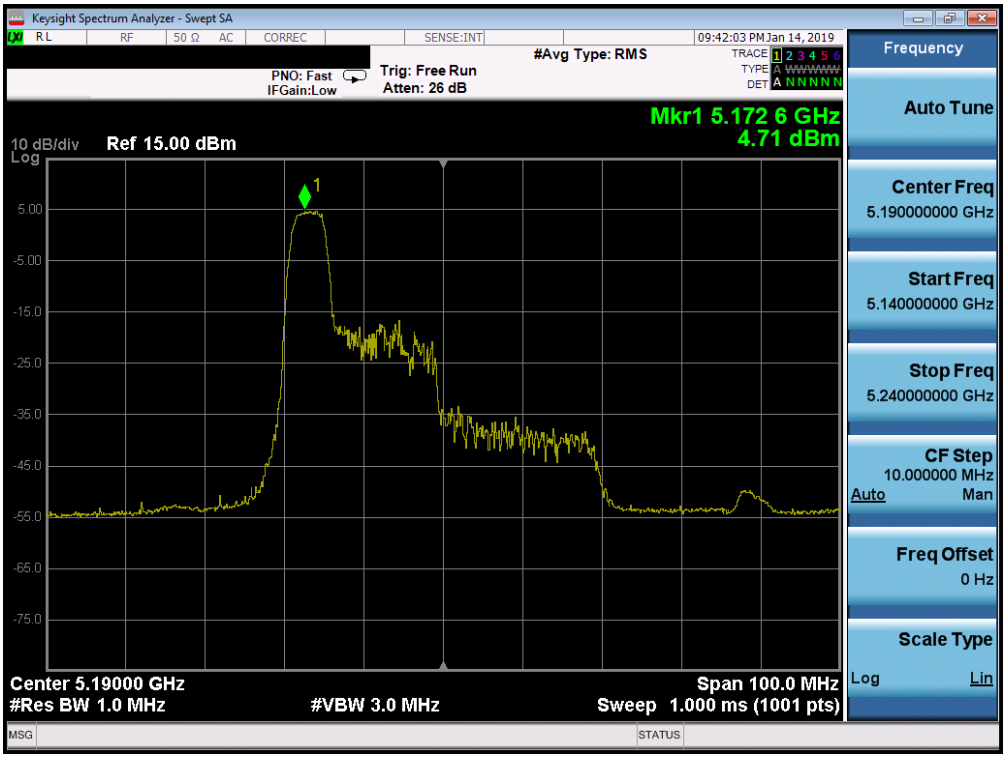
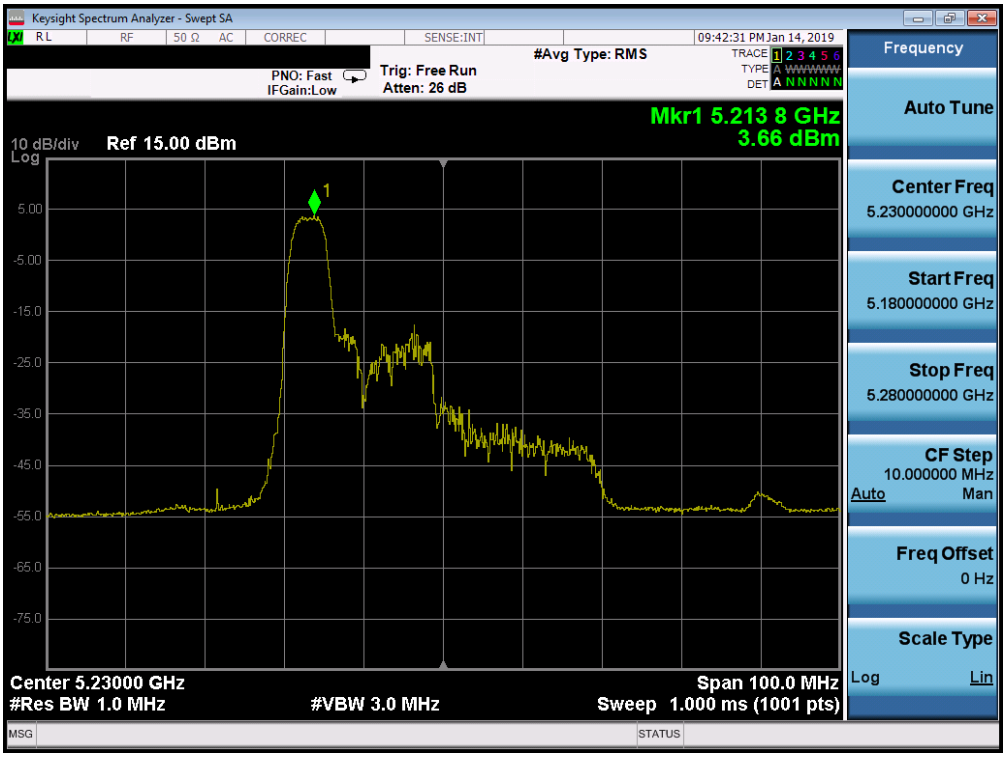


Plot 7-397. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 38)



Plot 7-398. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 46)

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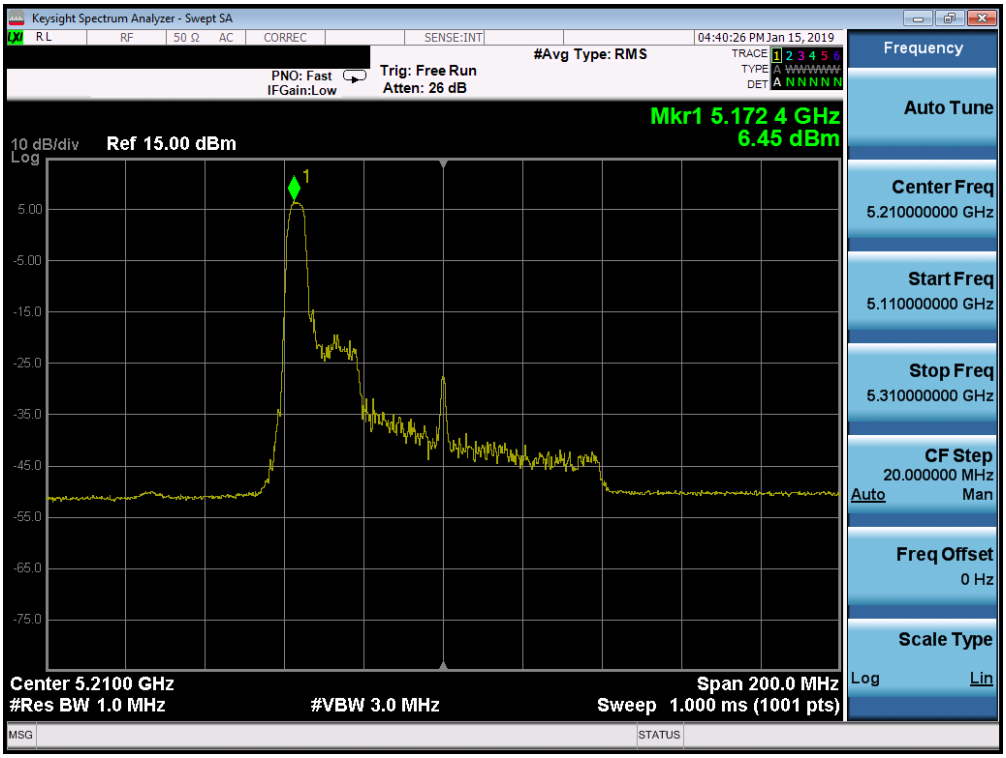
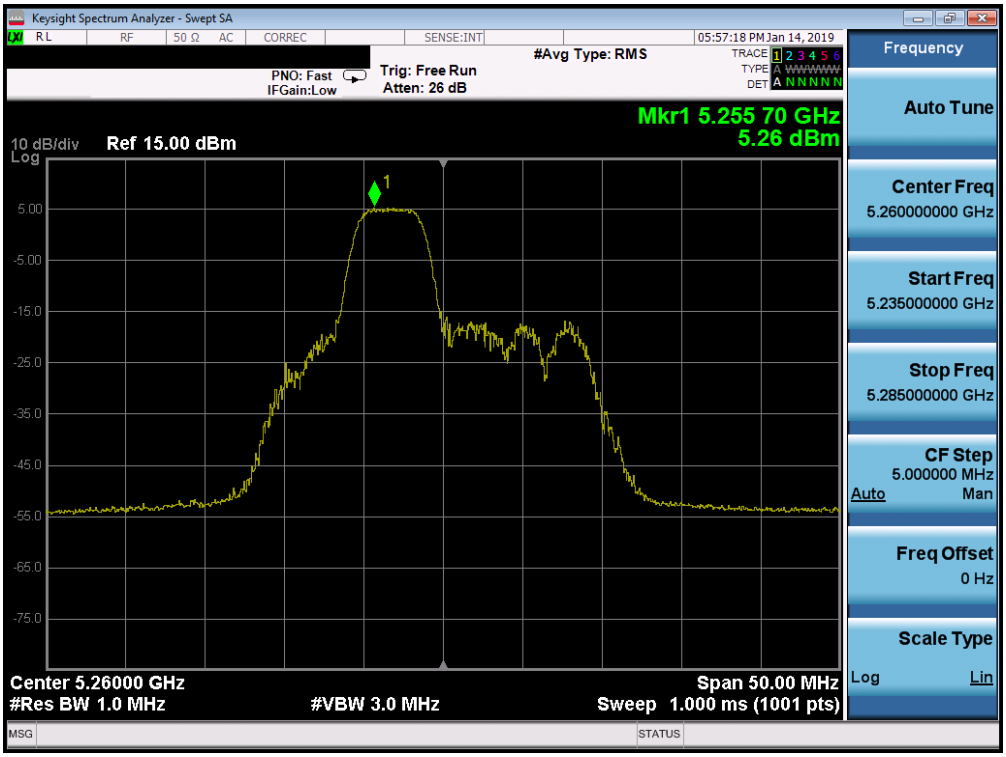


Plot 7-399. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 42)



Plot 7-400. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 52)

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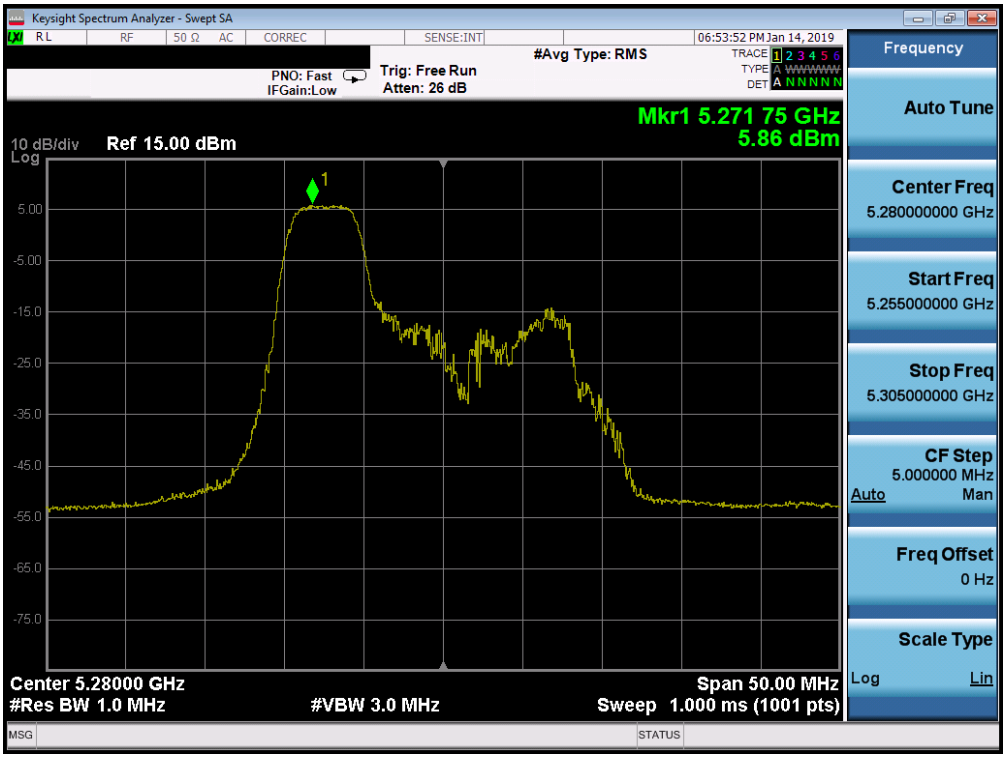
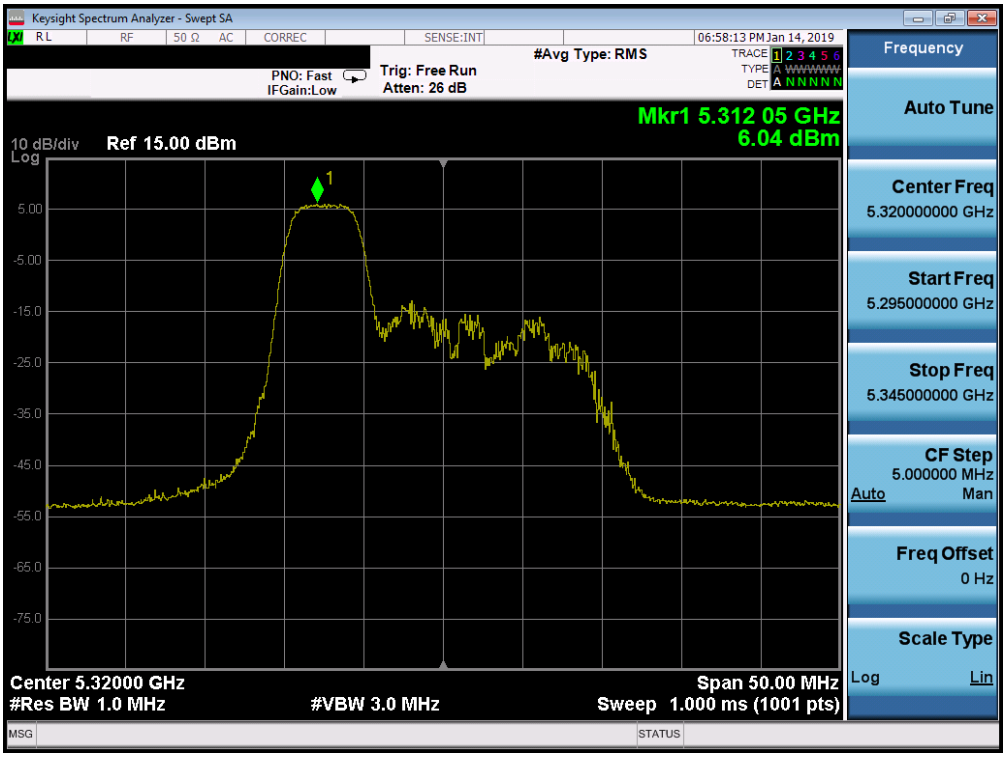


Plot 7-401. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 56)



Plot 7-402. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 64)

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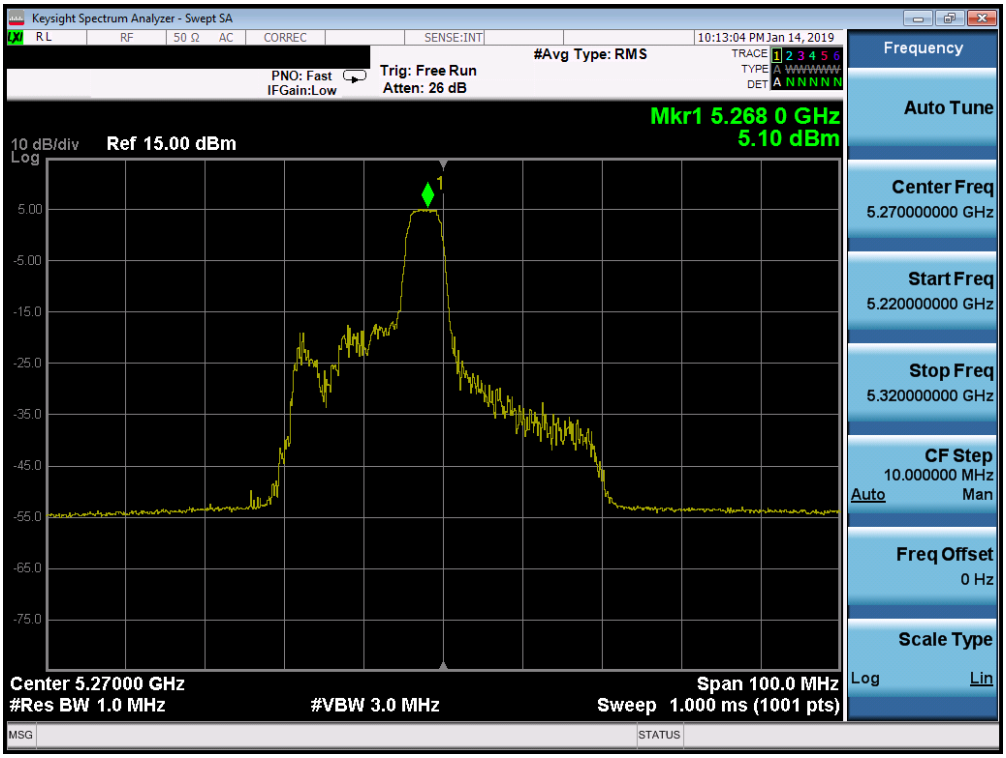
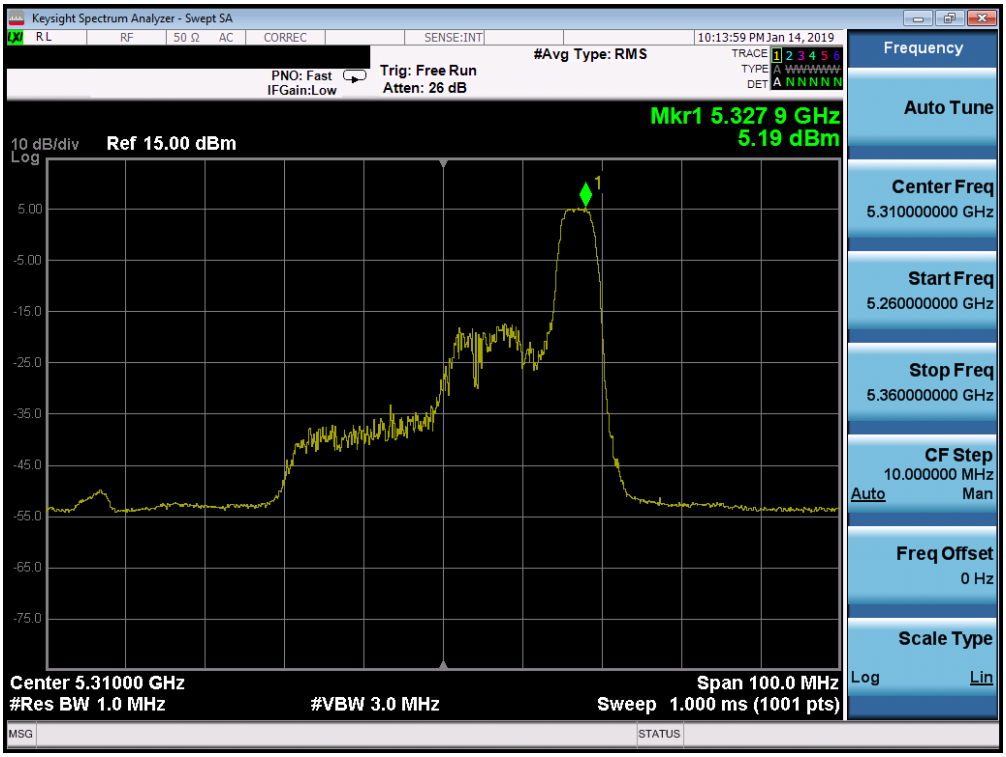


Plot 7-403. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 54)



Plot 7-404. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 62)

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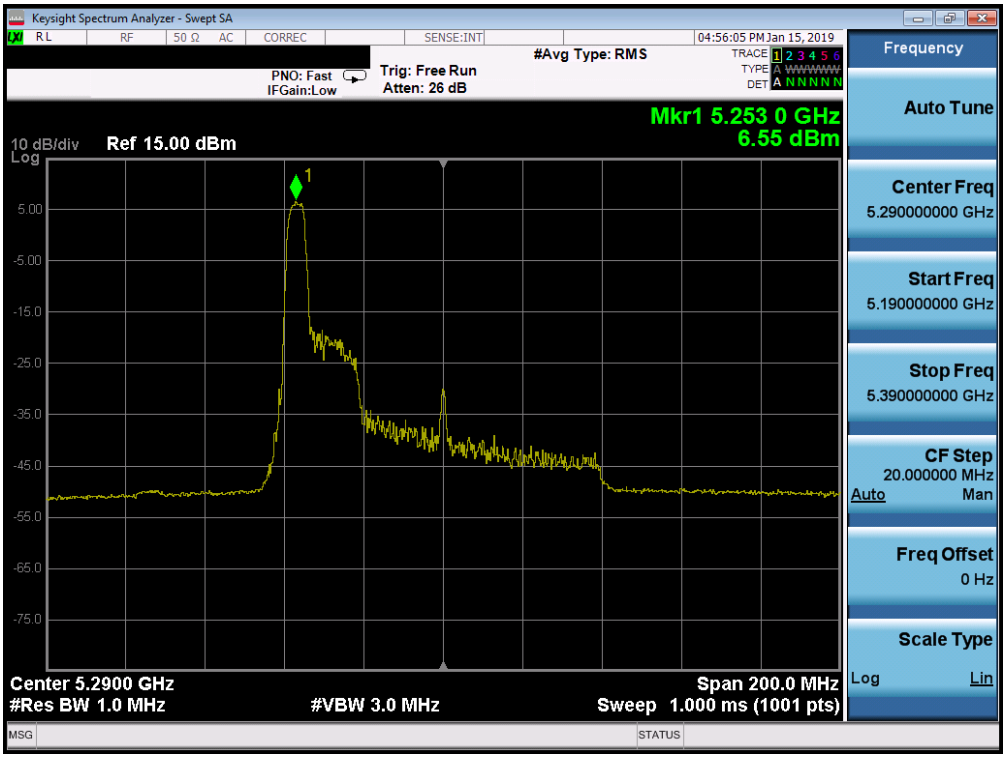
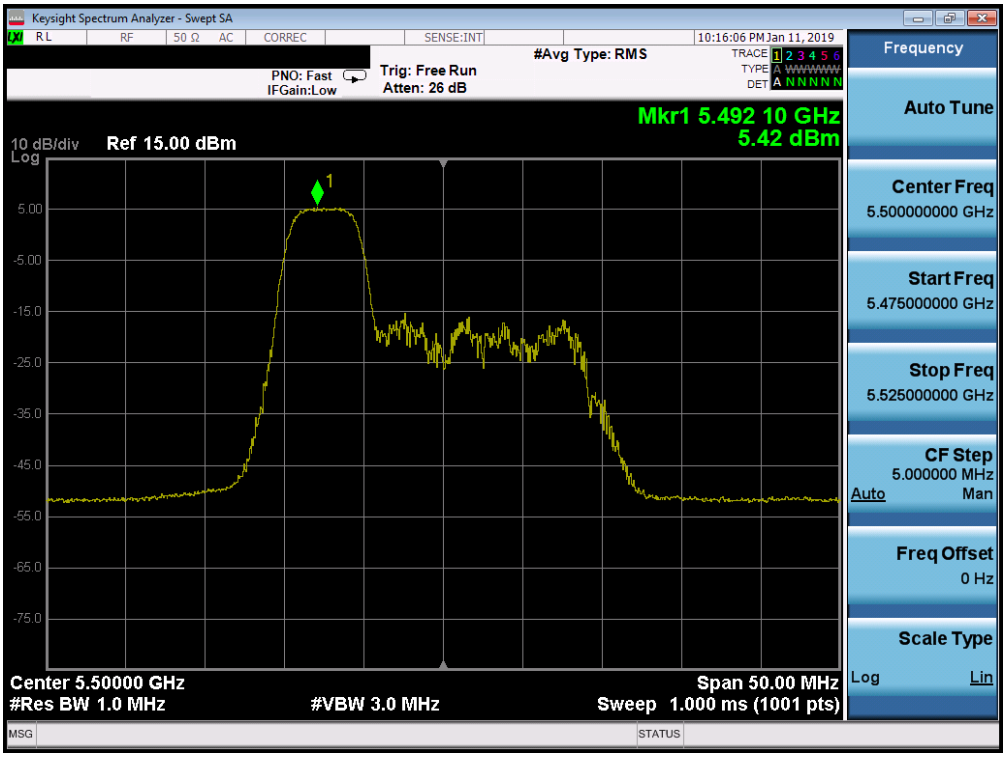


Plot 7-405. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 58)



Plot 7-406. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 100)

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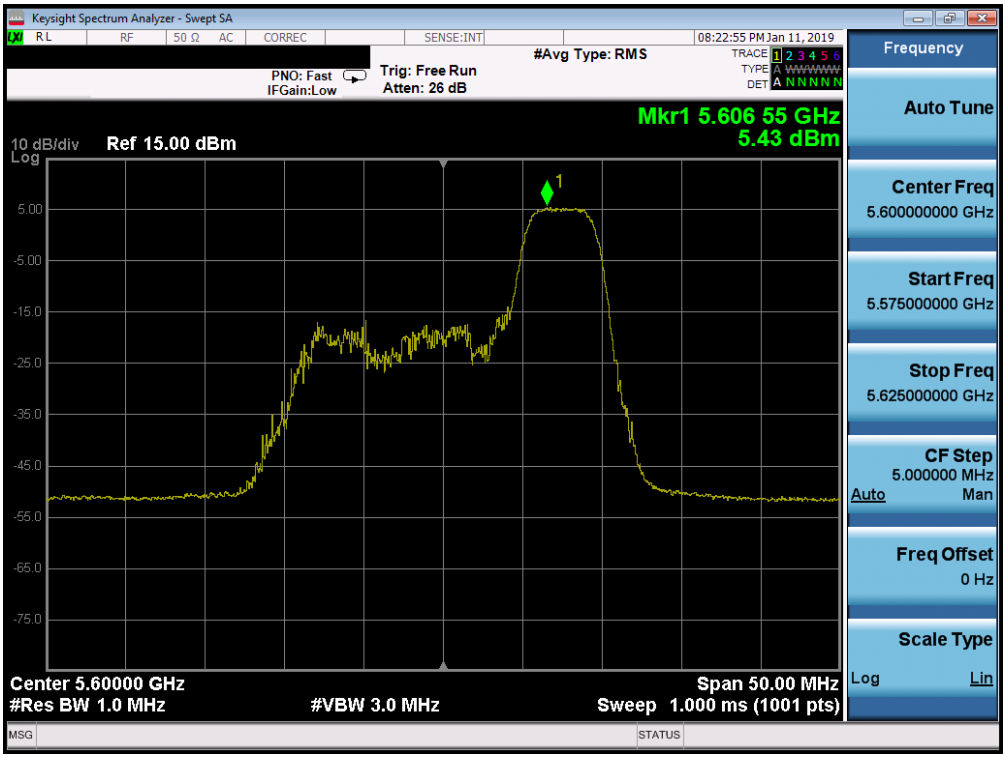
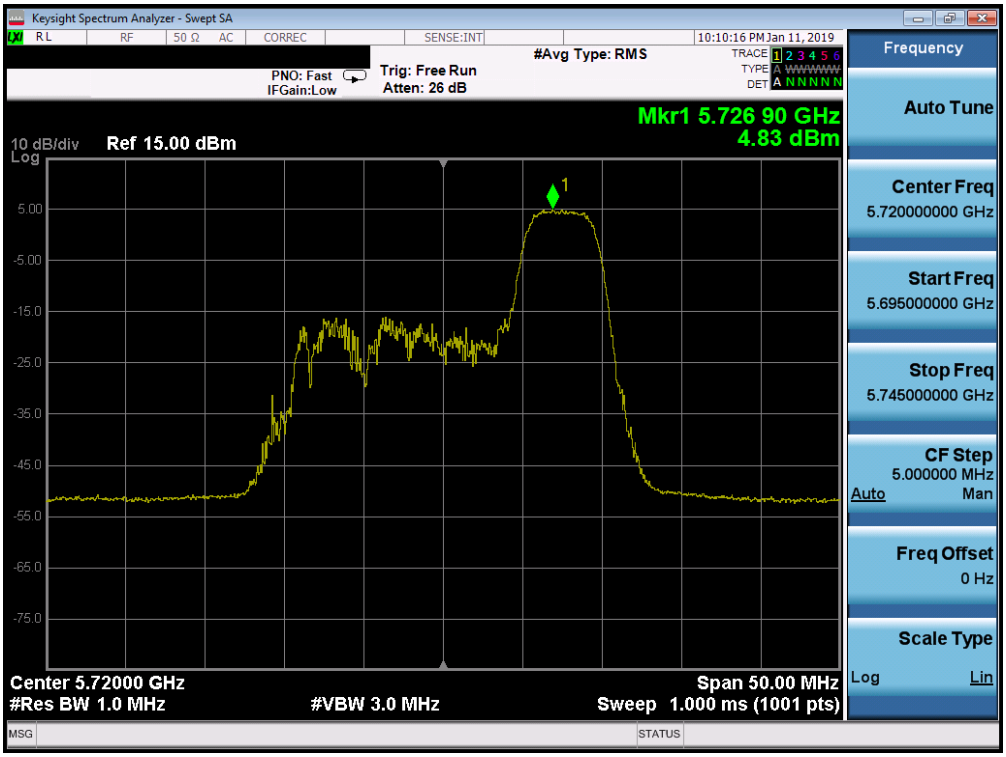


Plot 7-407. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 120)



Plot 7-408. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 144)

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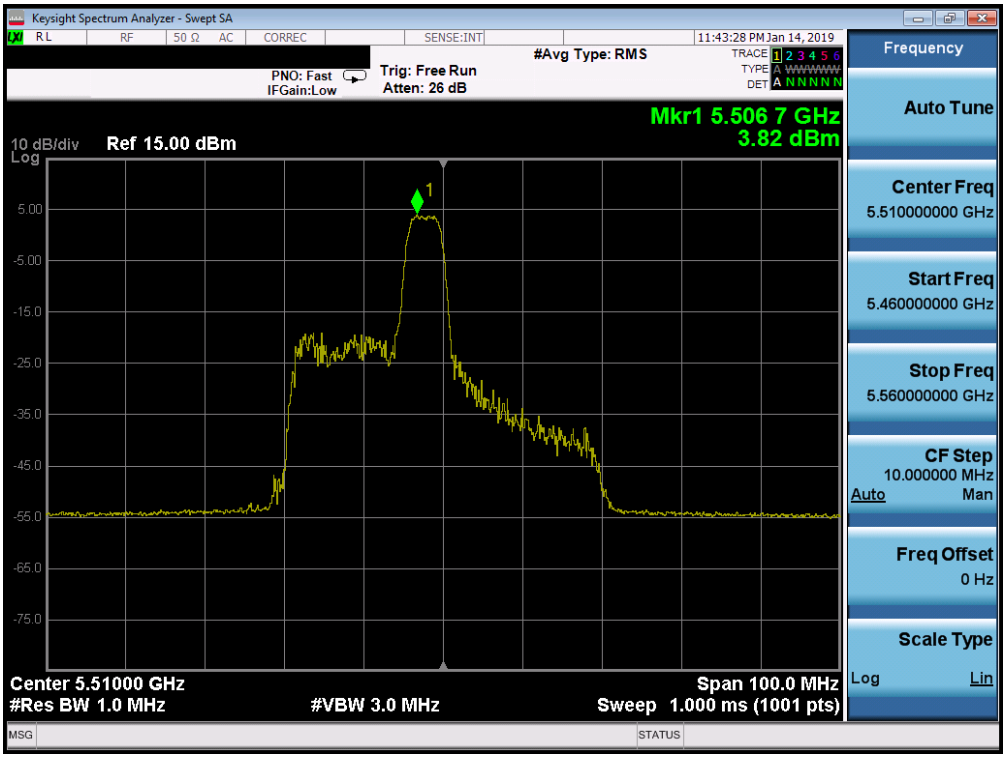
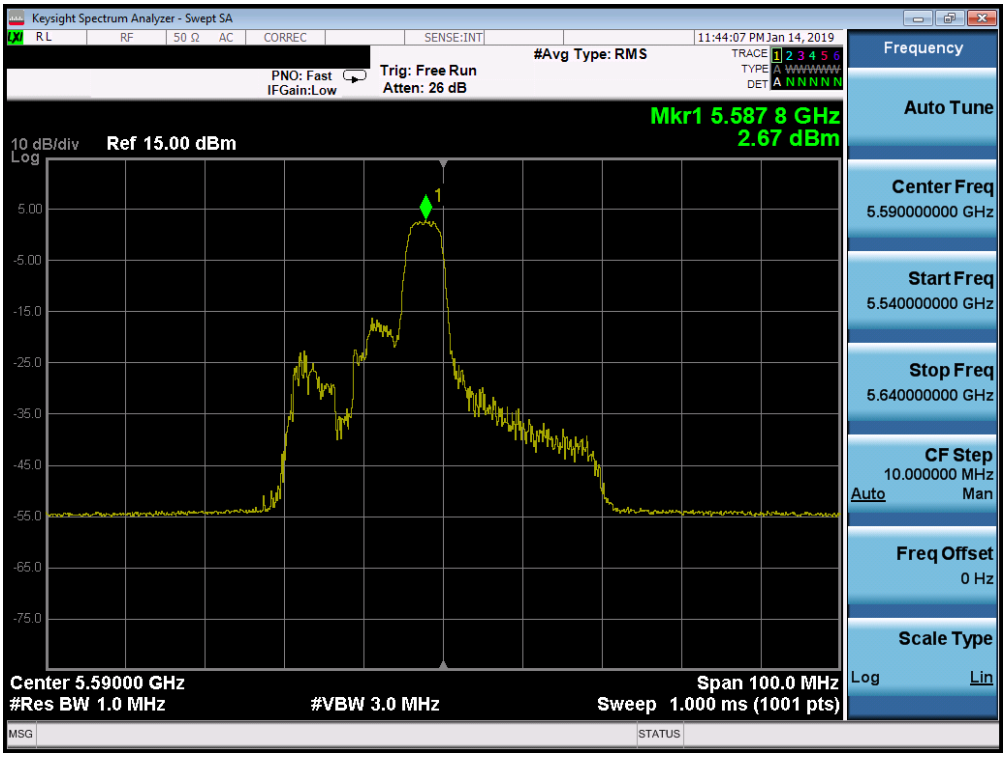


Plot 7-409. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 102)



Plot 7-410. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 118)

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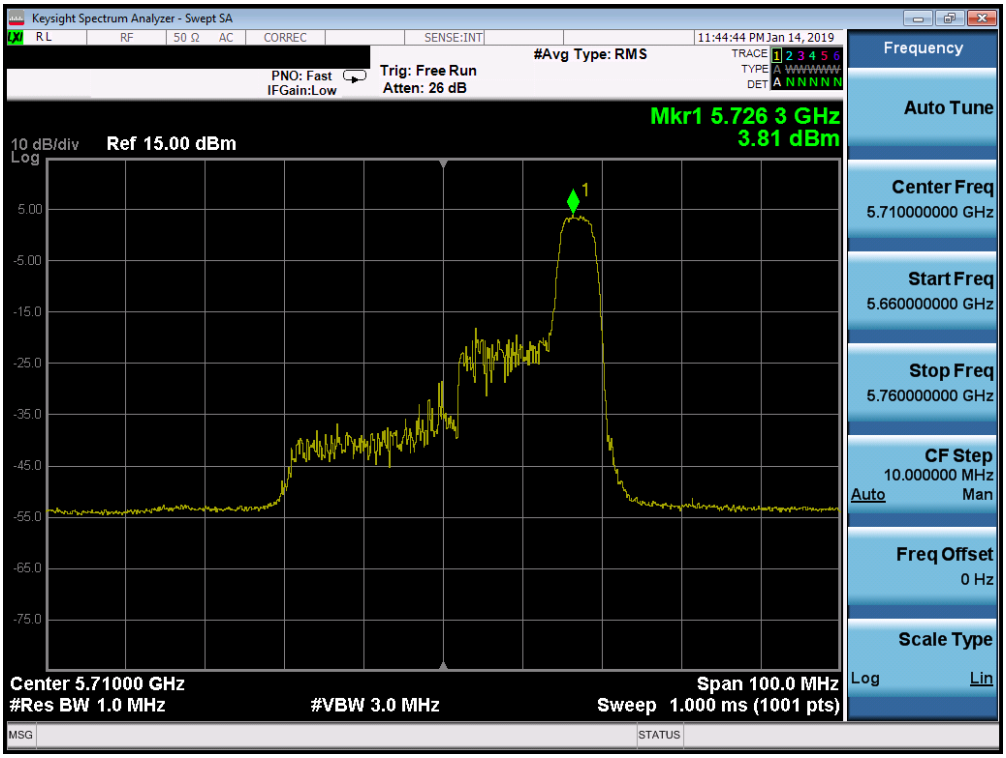
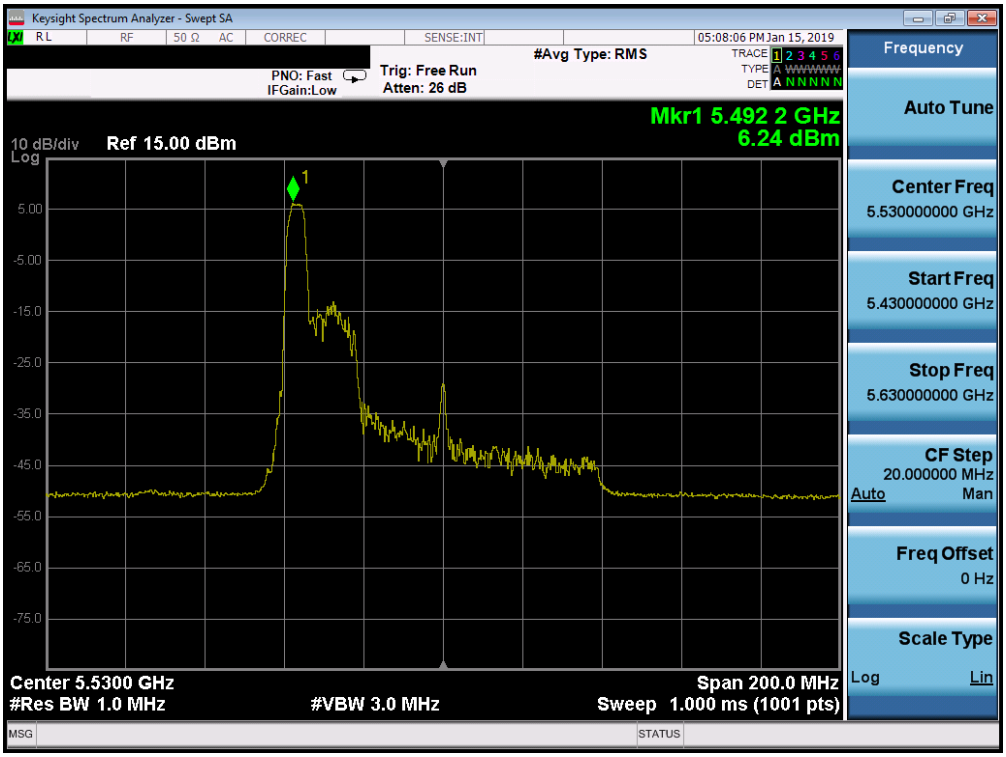


Plot 7-411. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 142)



Plot 7-412. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 106)

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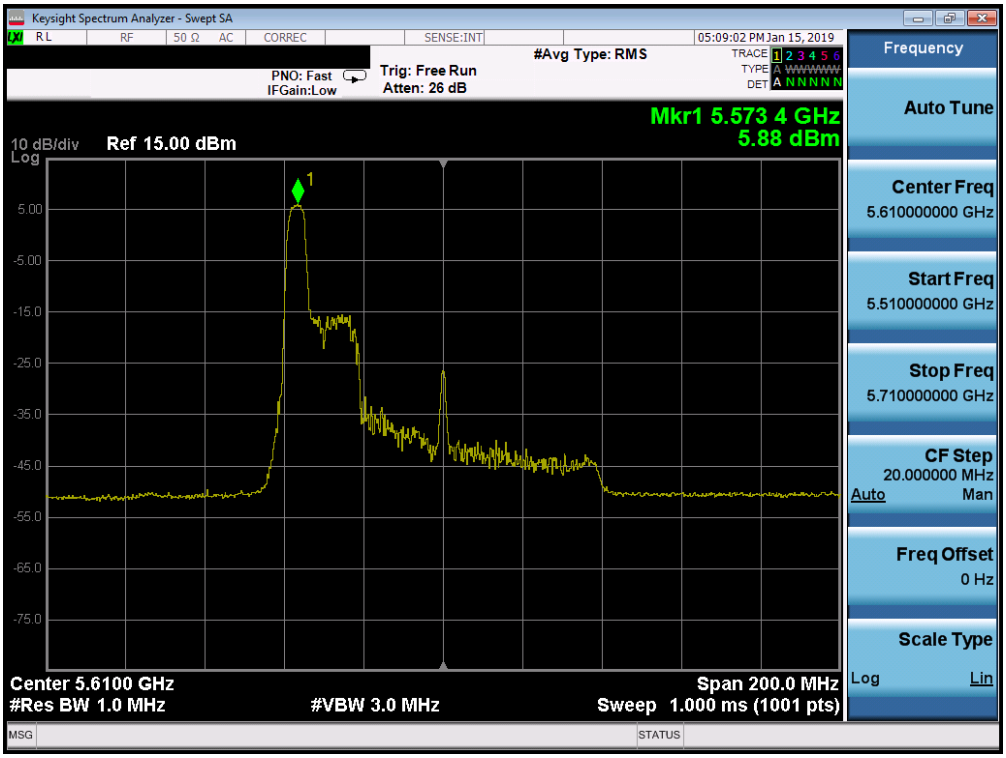
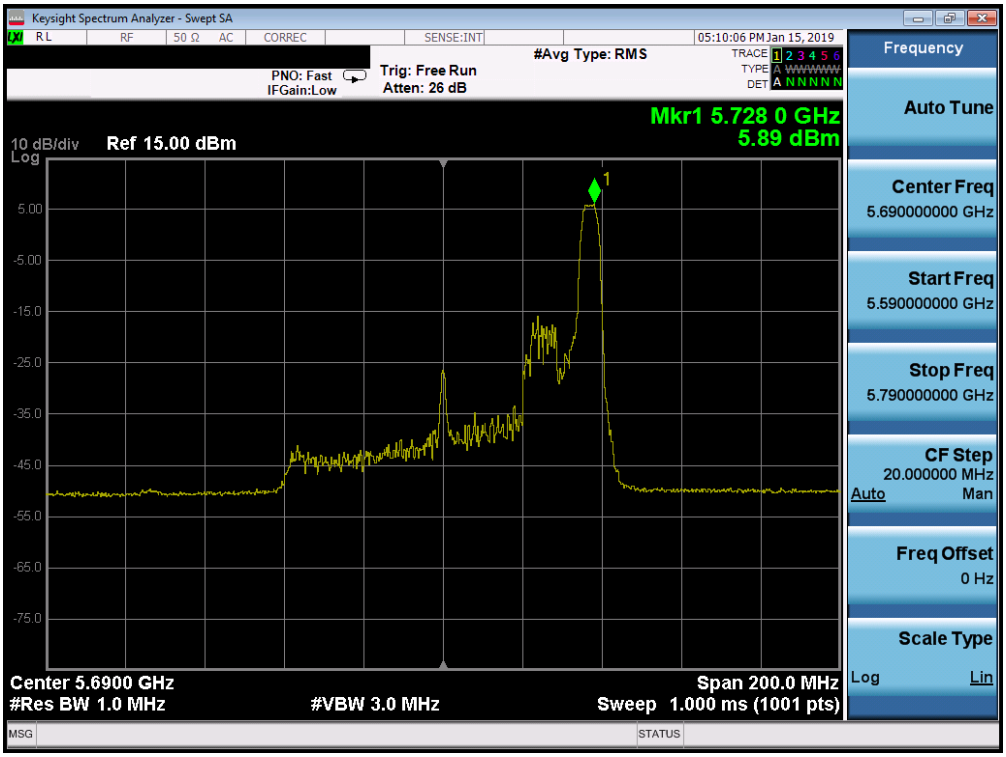


Plot 7-413. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 122)



Plot 7-414. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 138)

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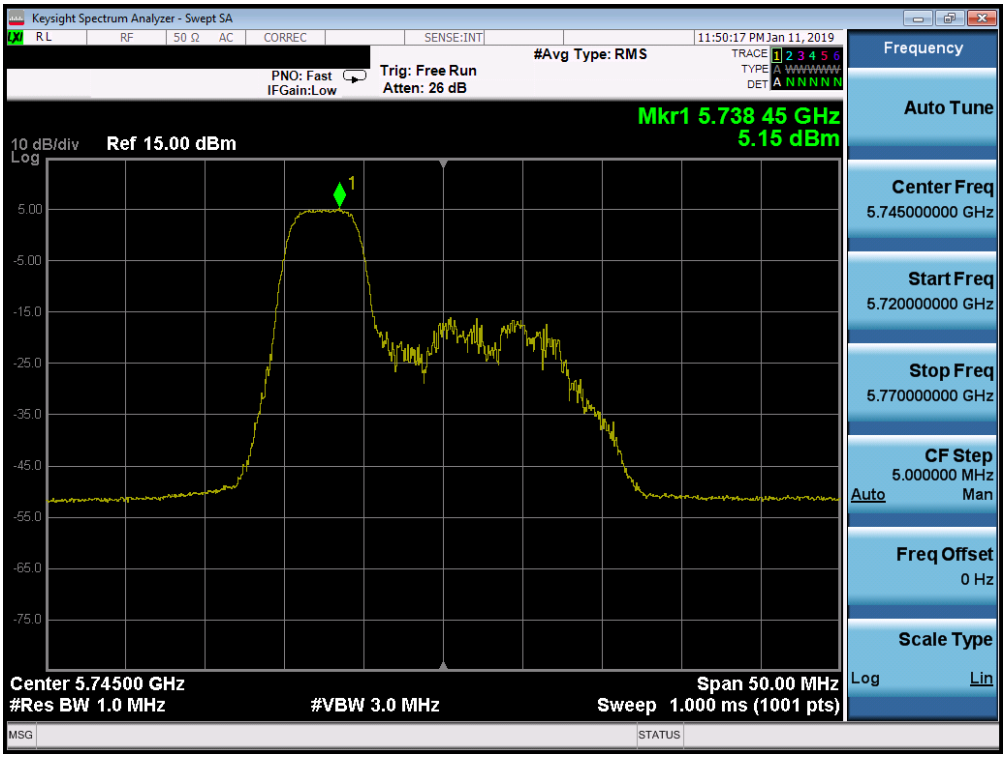
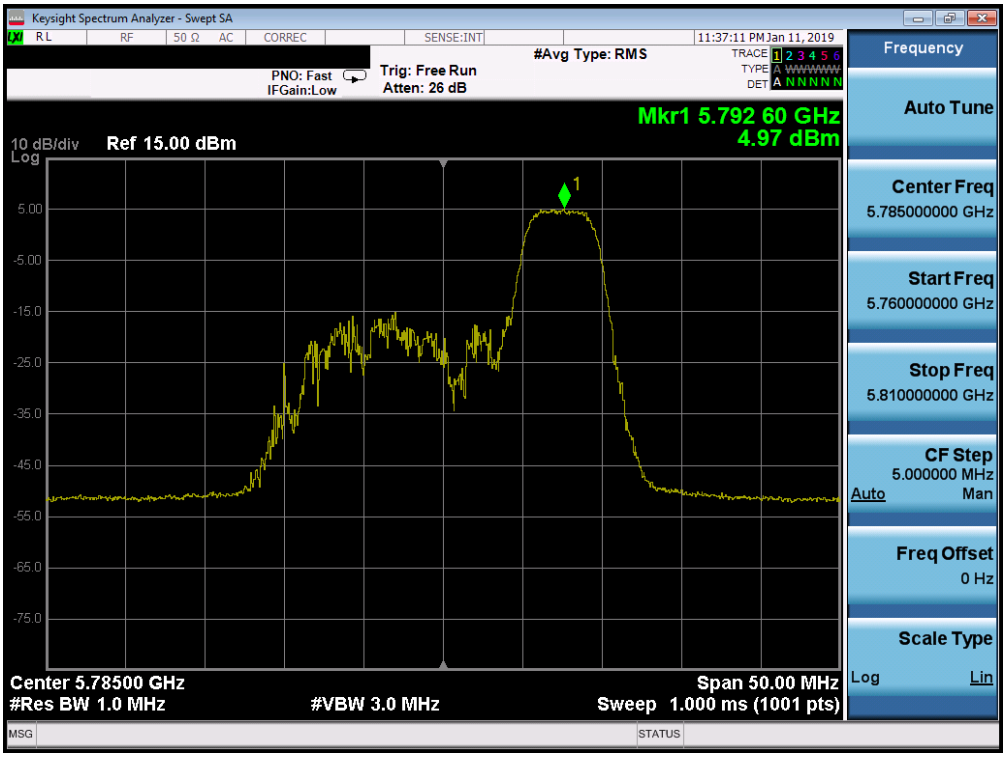


Plot 7-415. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 149)



Plot 7-416. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 157)

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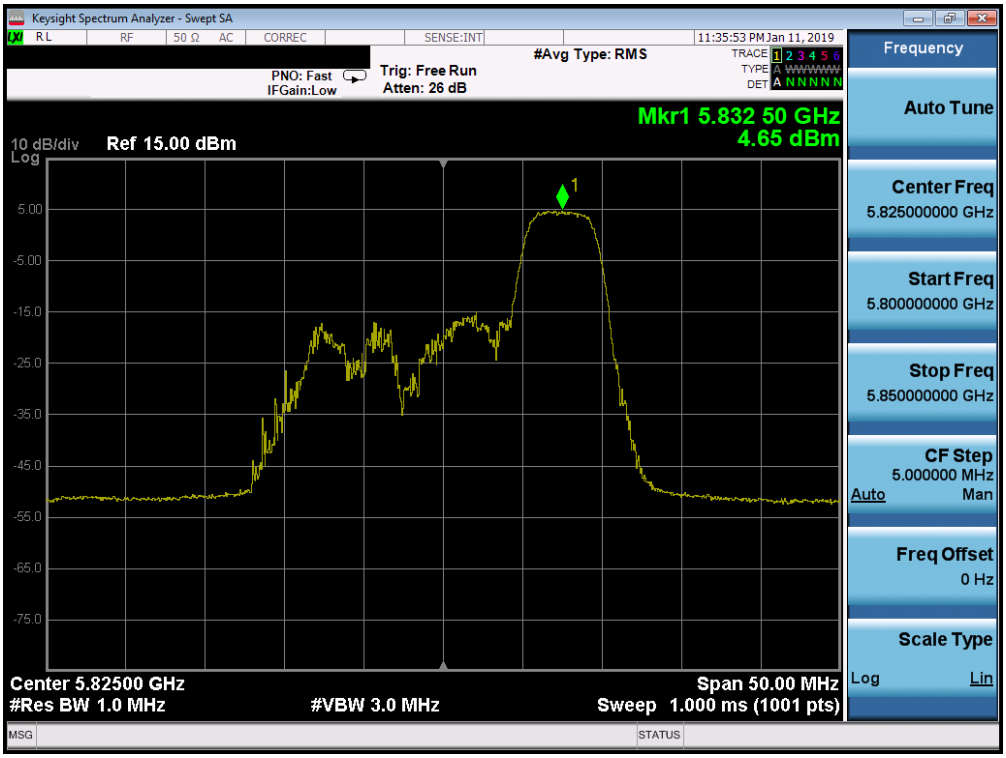
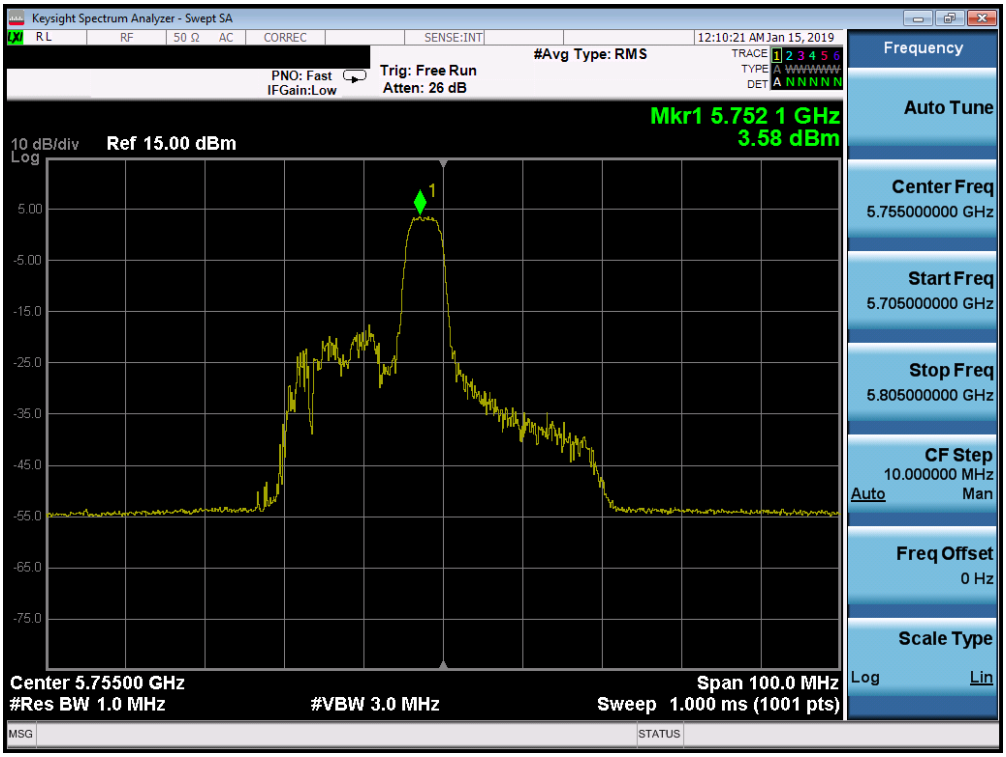


Plot 7-417. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 165)



Plot 7-418. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 151)

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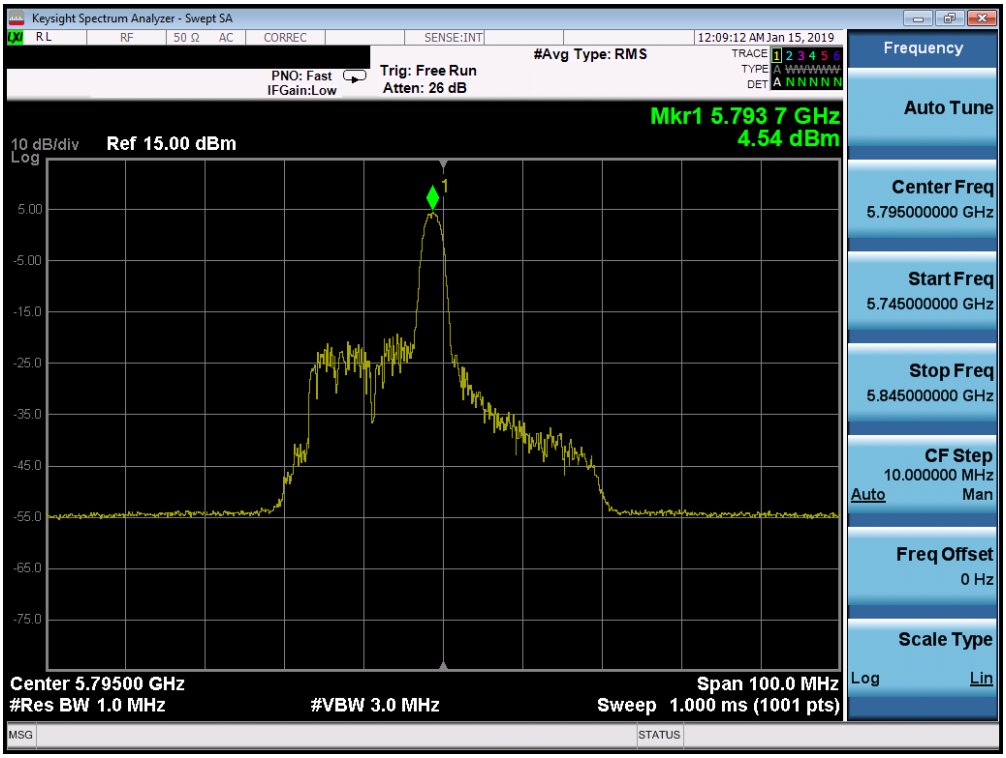
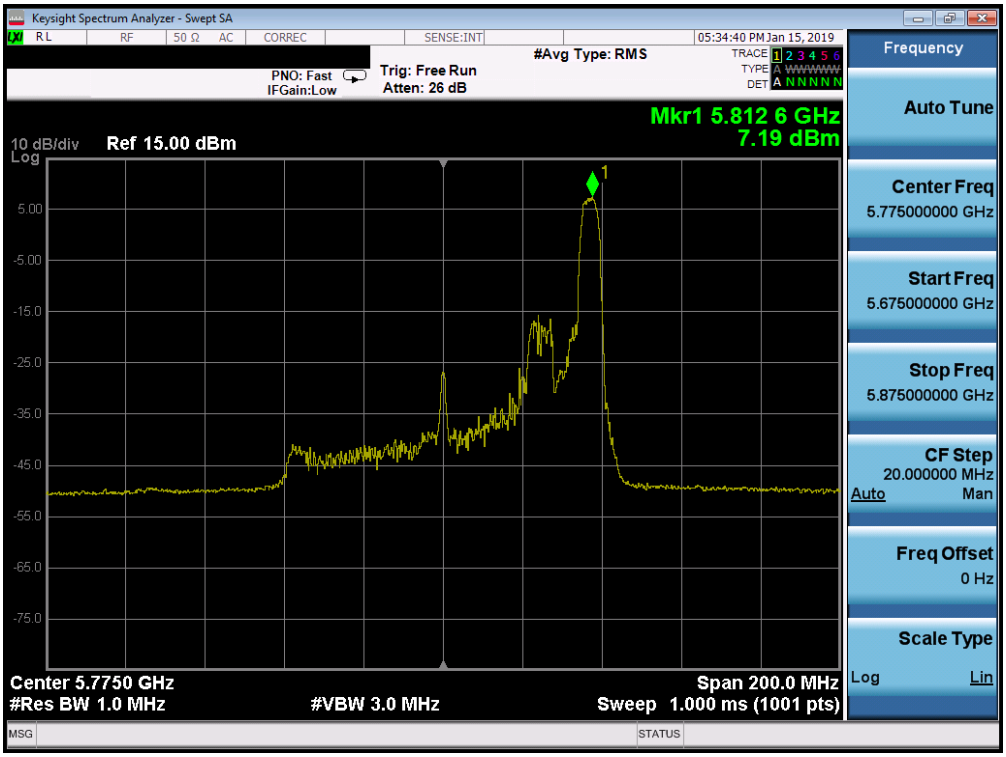


Plot 7-419. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 159)



Plot 7-420. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 155)

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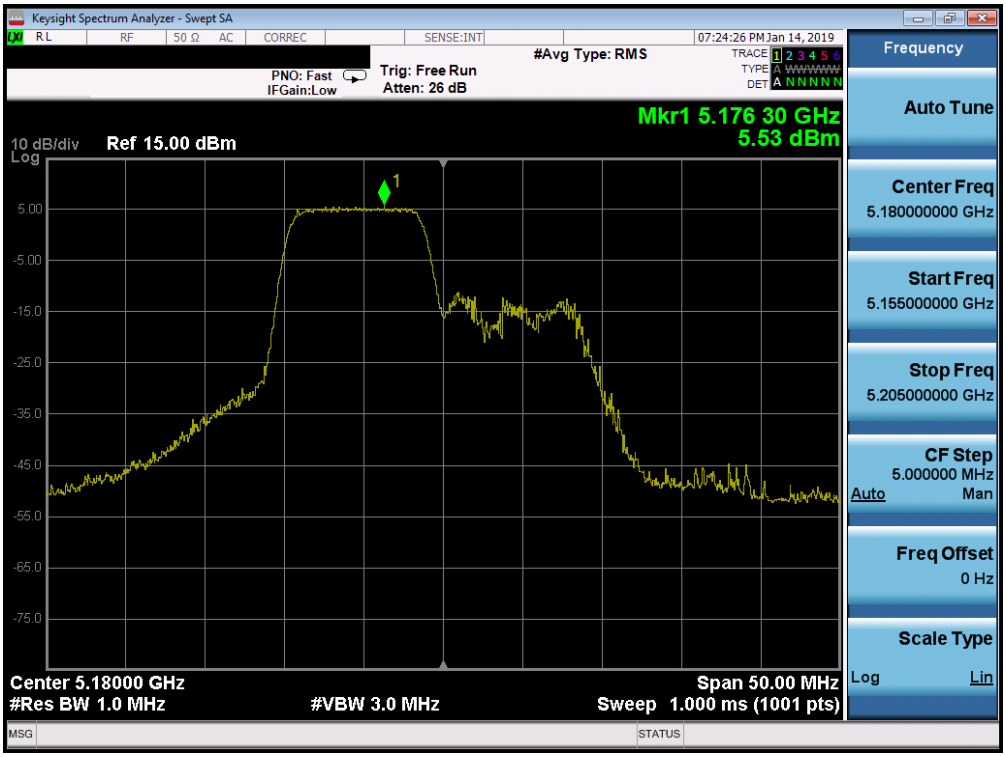
MIMO Antenna-1 Power Spectral Density Measurements (106 Tones)



Plot 7-421. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 36)

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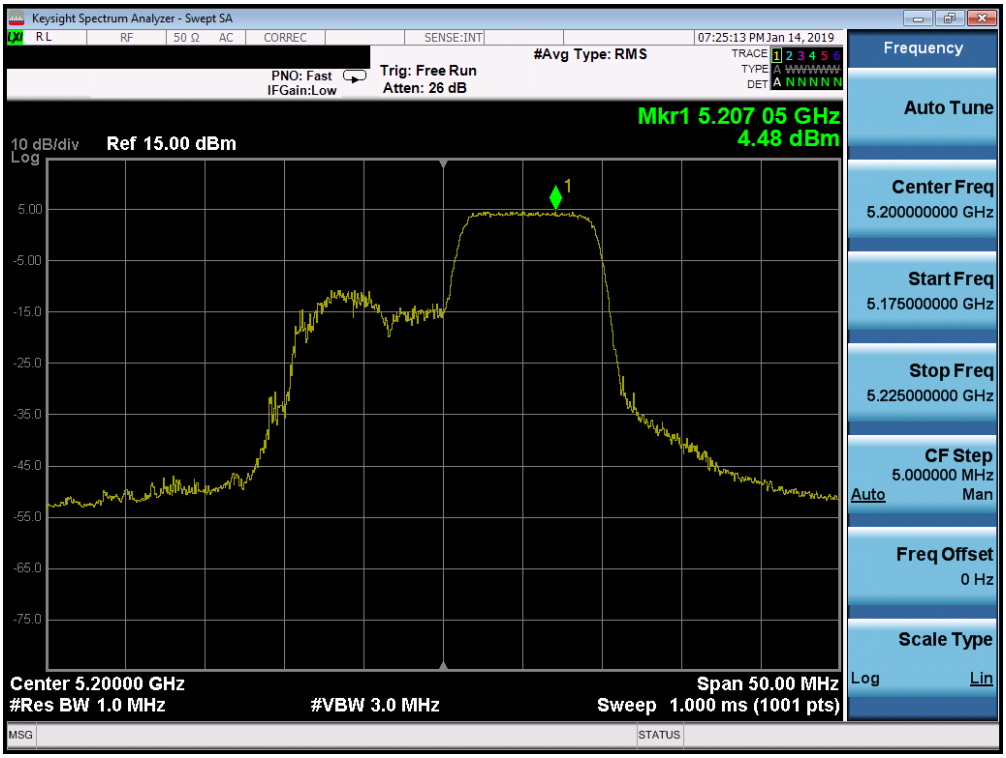
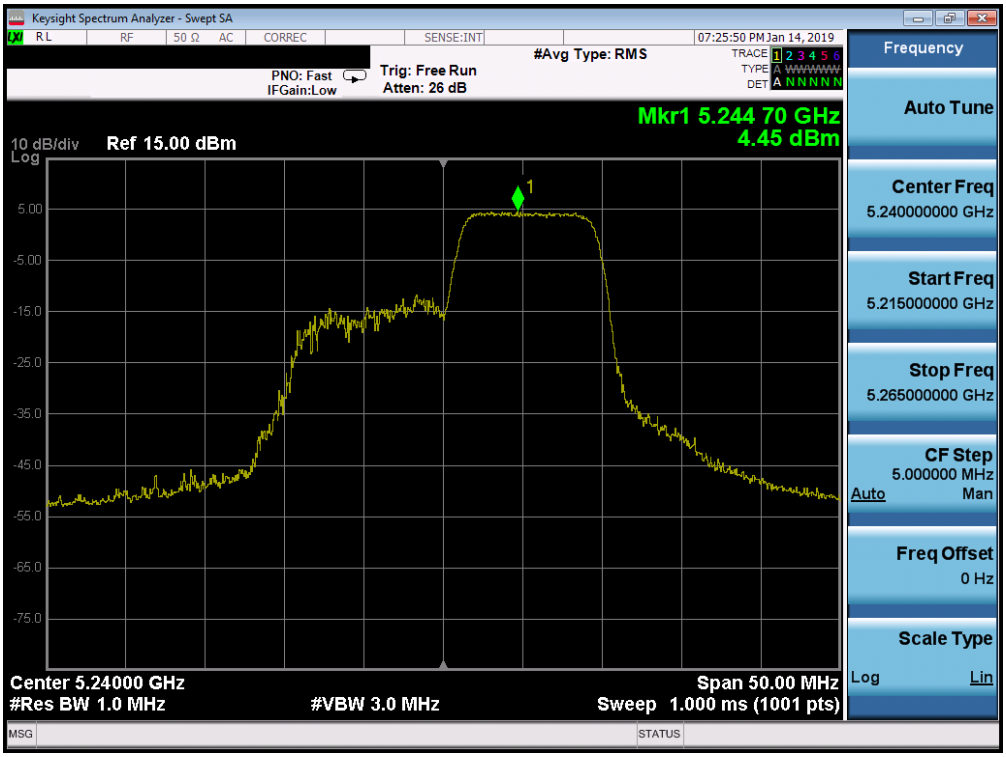


Plot 7-422. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 40)



Plot 7-423. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 48)

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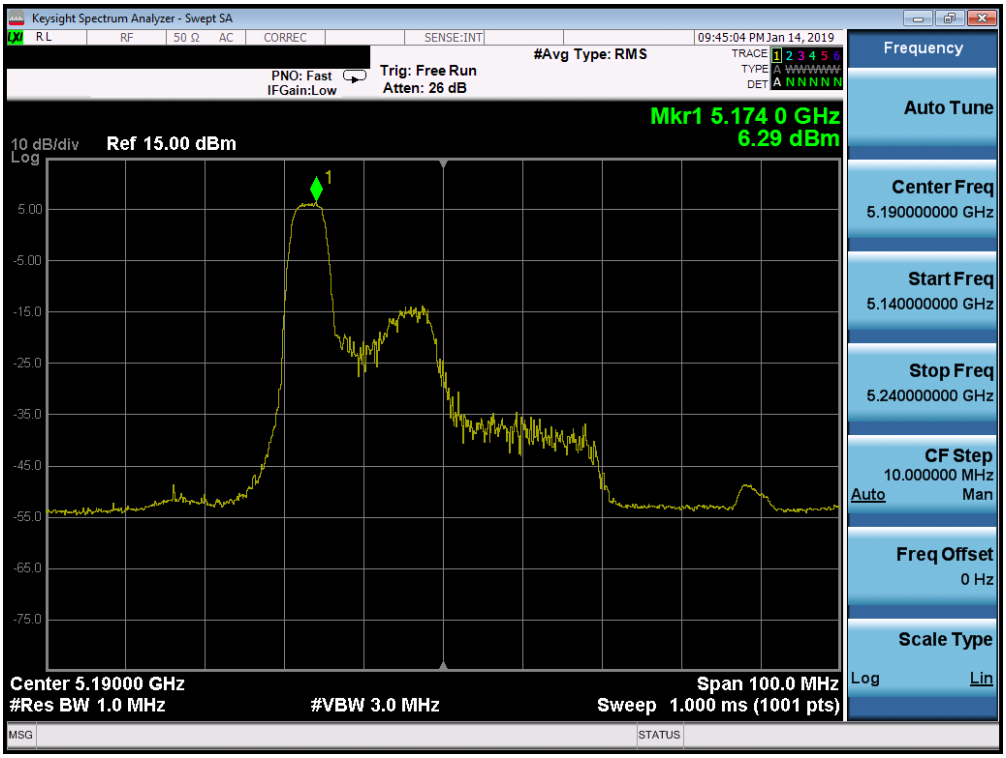
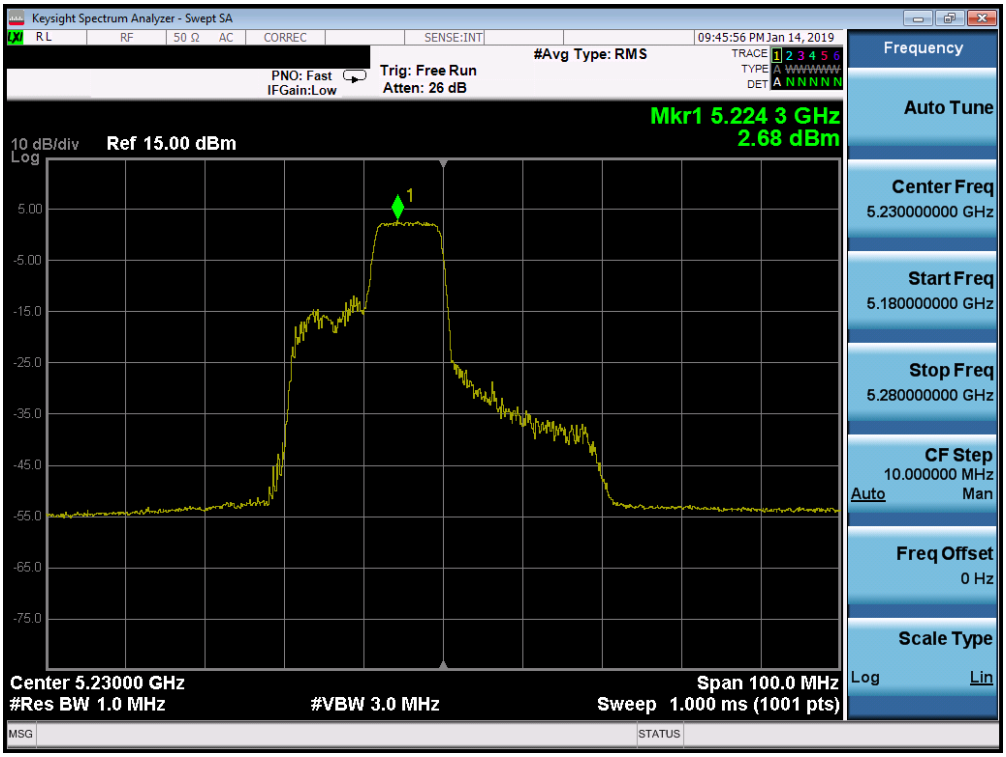


Plot 7-424. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 38)



Plot 7-425. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 46)

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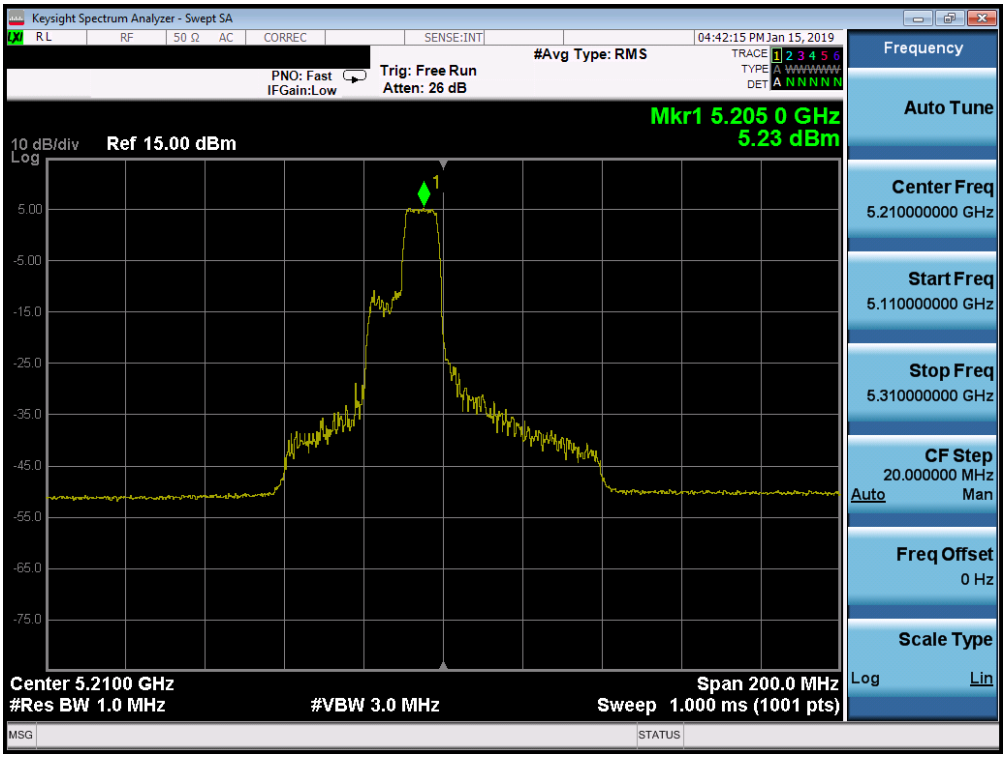
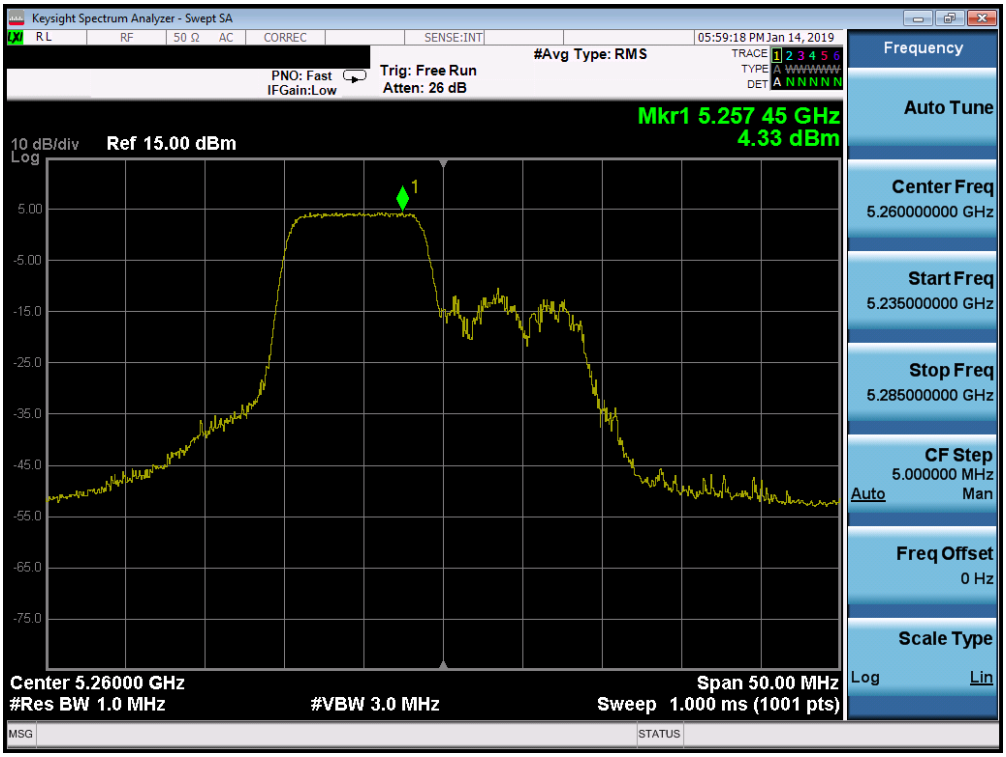


Plot 7-426. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 42)



Plot 7-427. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 52)

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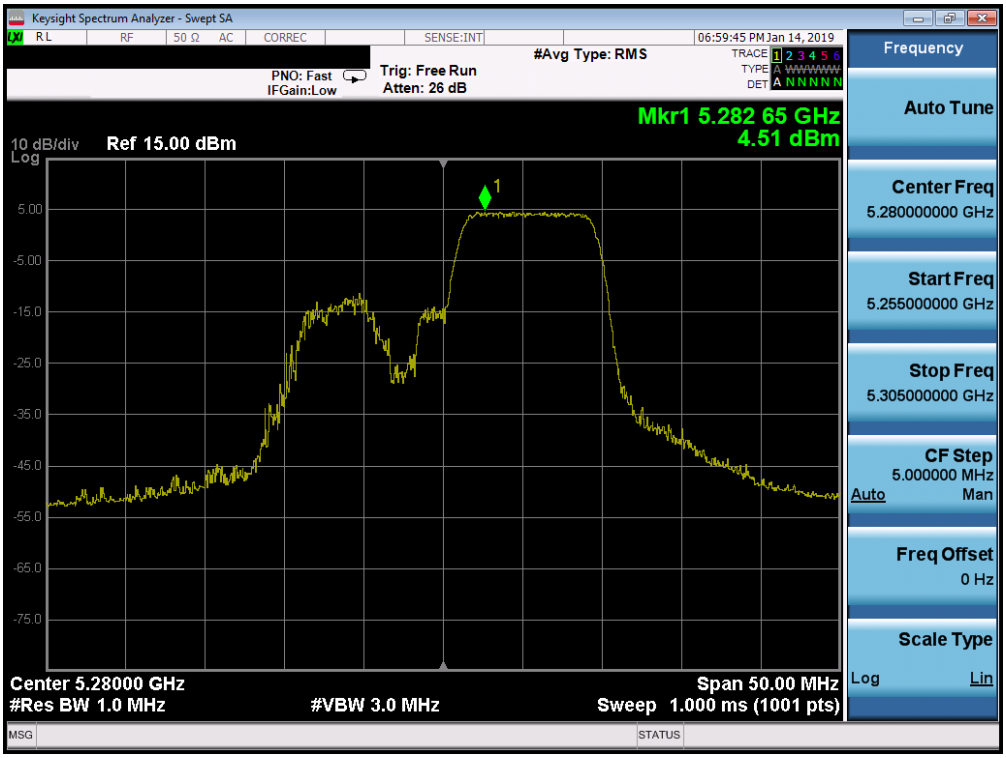
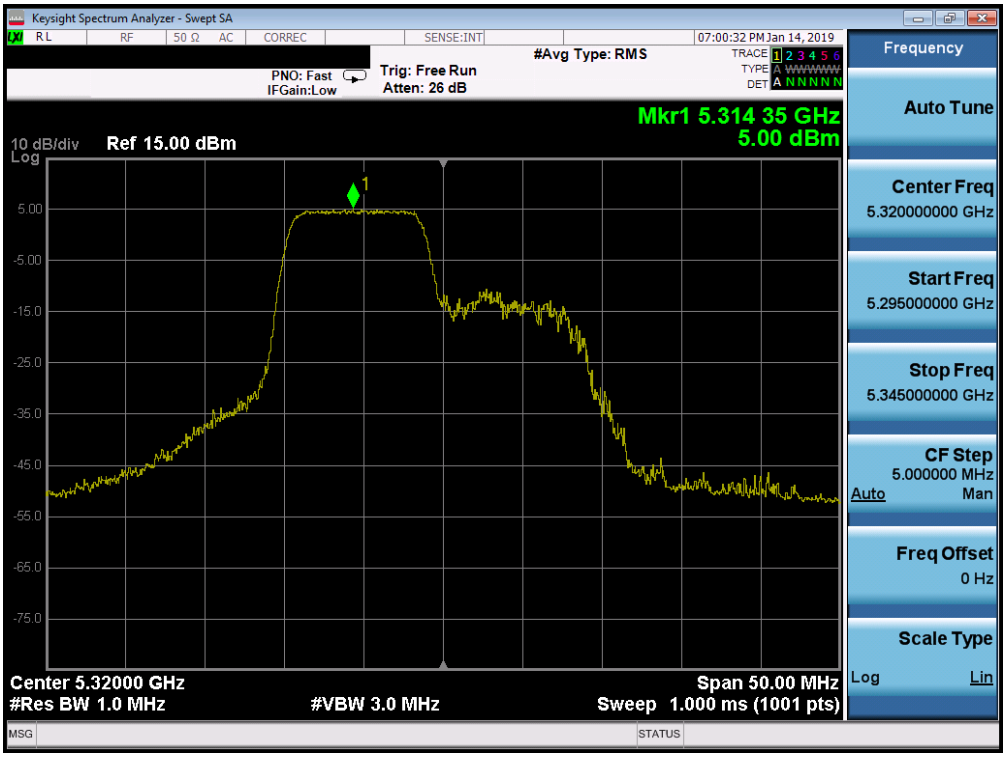


Plot 7-428. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 56)



Plot 7-429. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 64)

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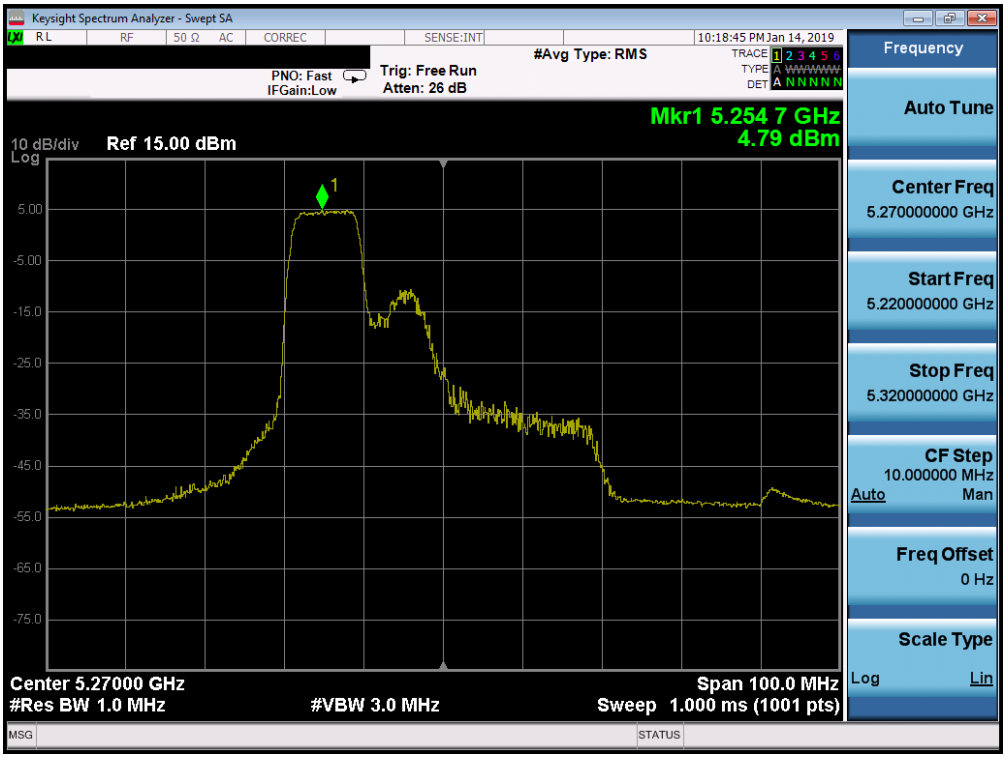
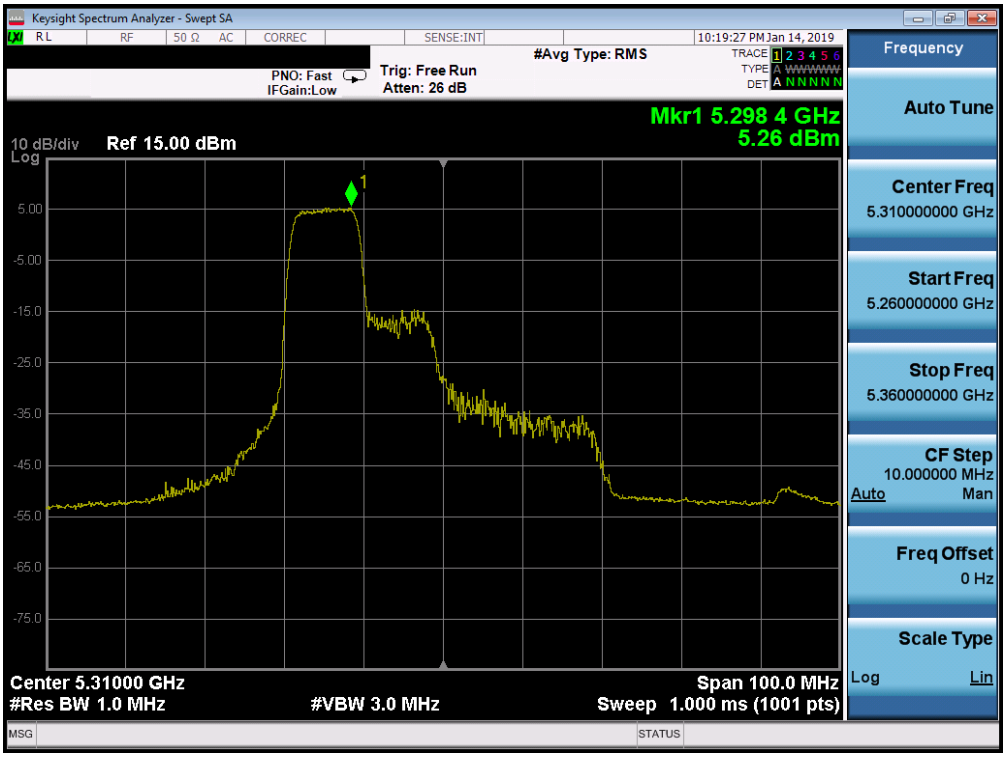


Plot 7-430. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 54)



Plot 7-431. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 62)

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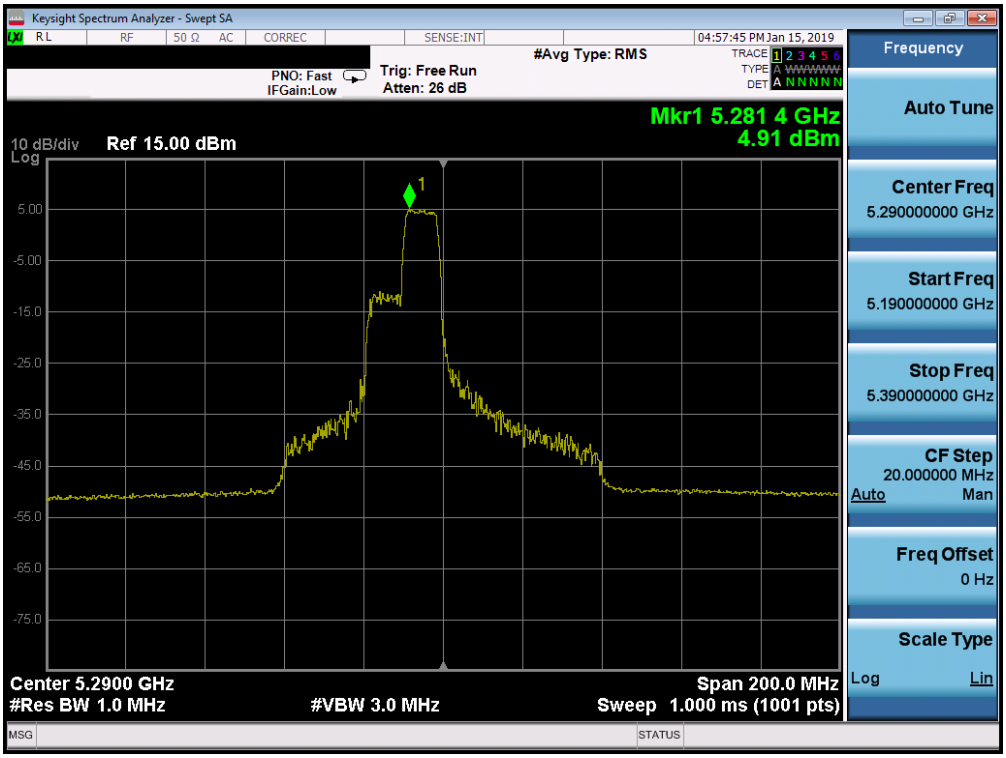
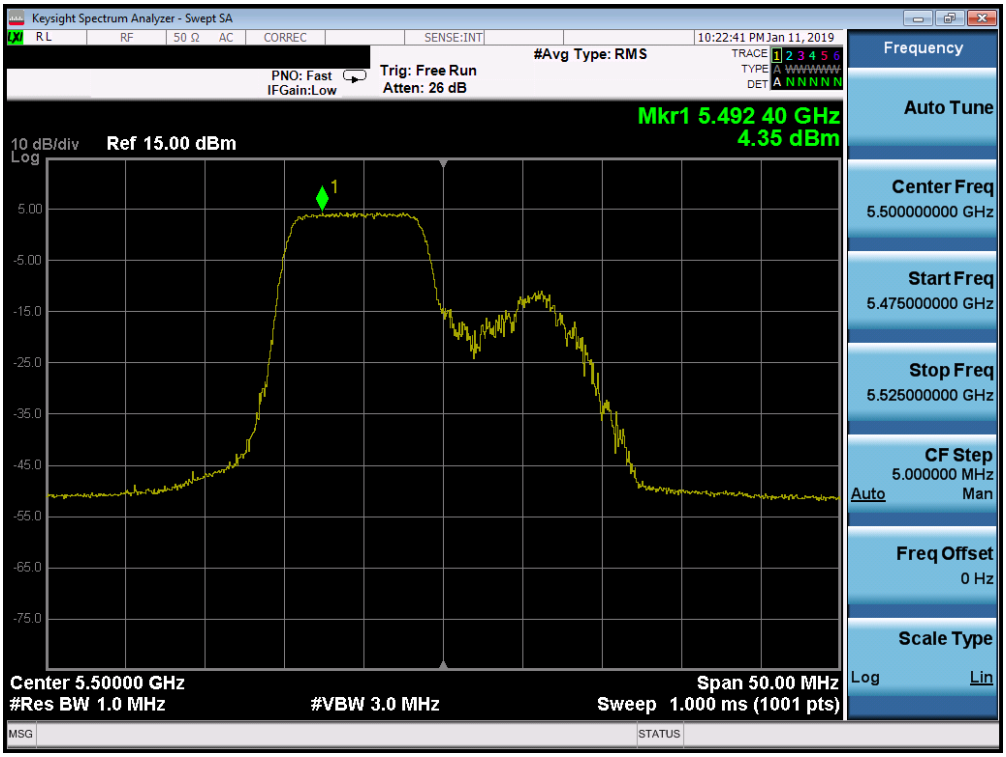


Plot 7-432. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 58)



Plot 7-433. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 100)

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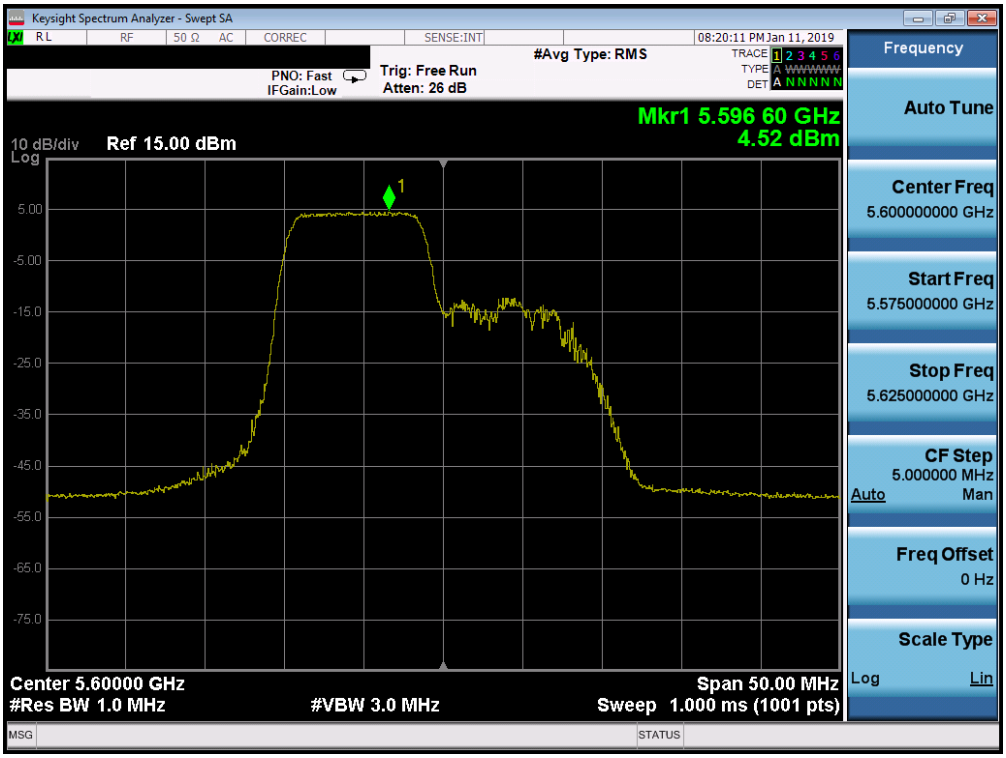
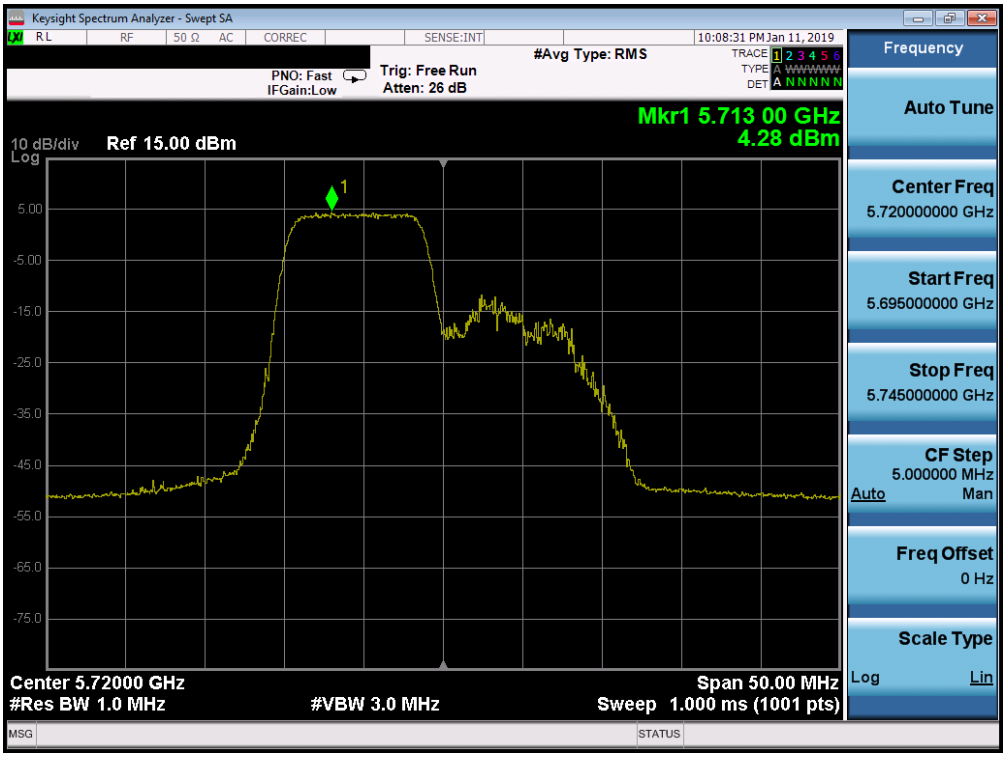


Plot 7-434. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 120)



Plot 7-435. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 144)

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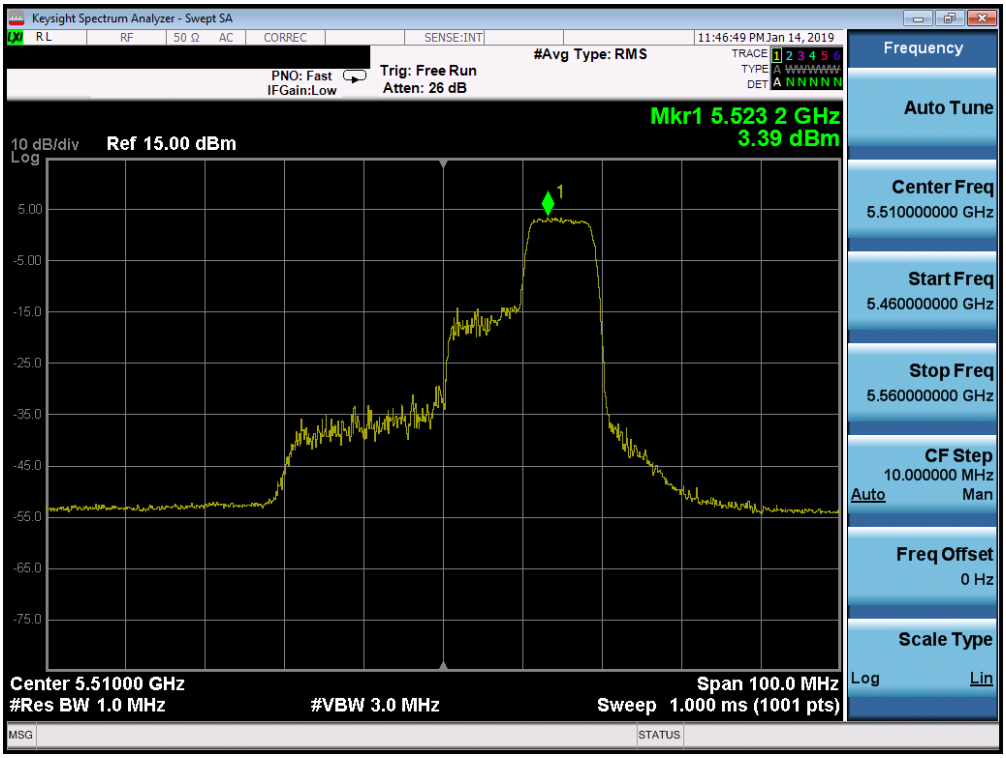
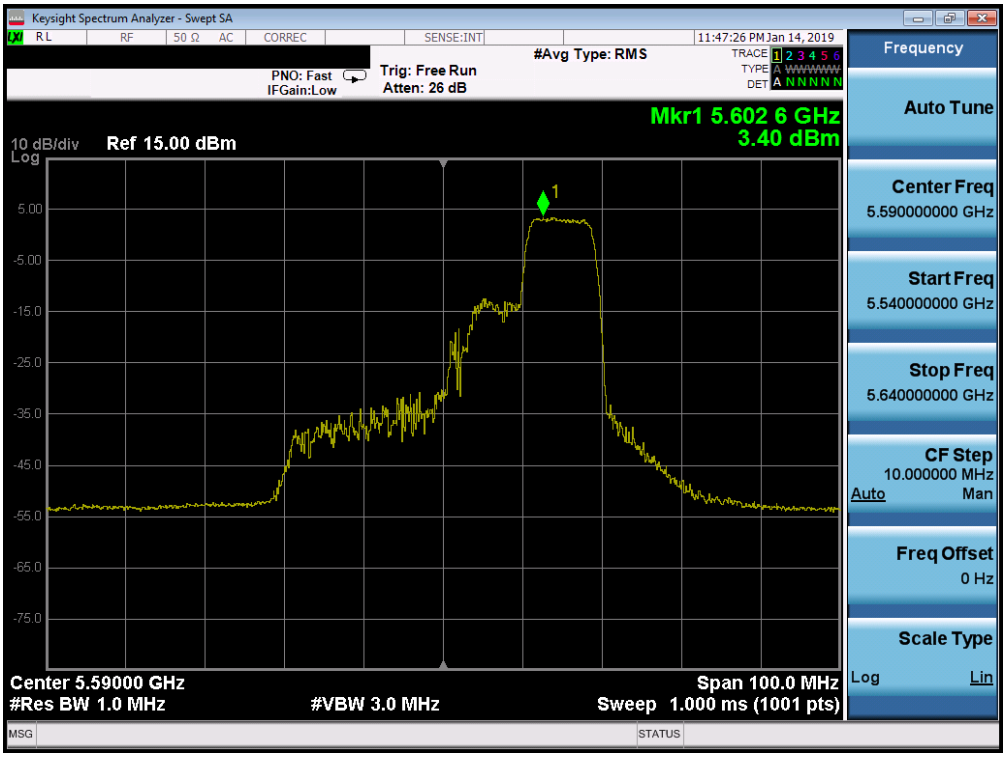


Plot 7-436. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 102)



Plot 7-437. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 118)

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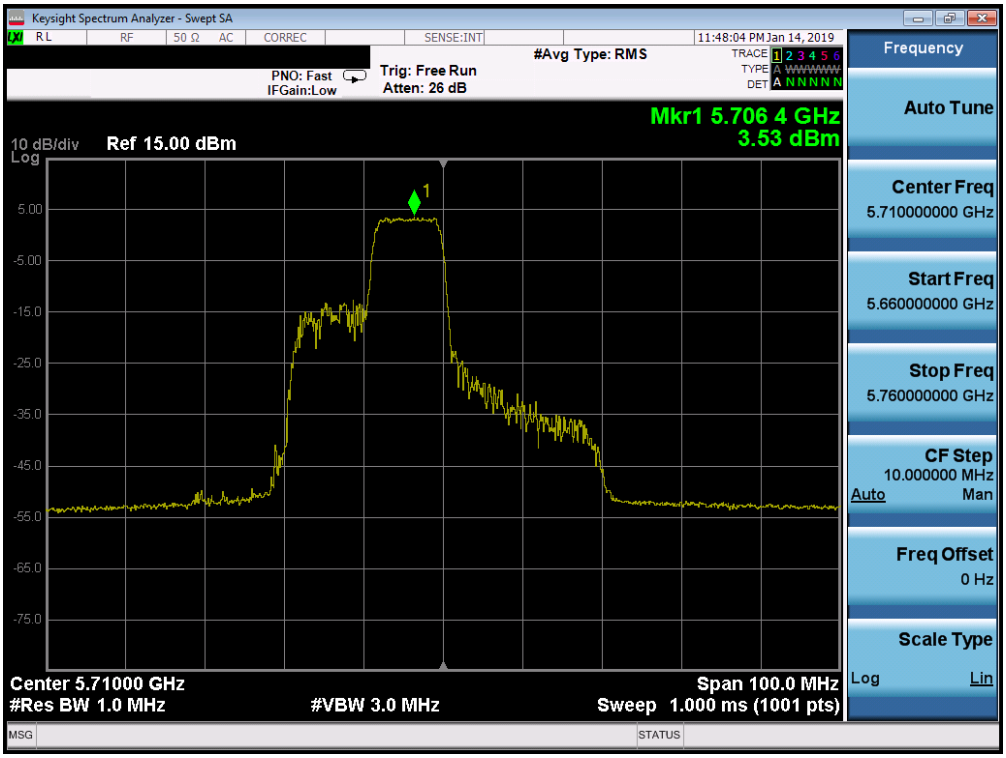
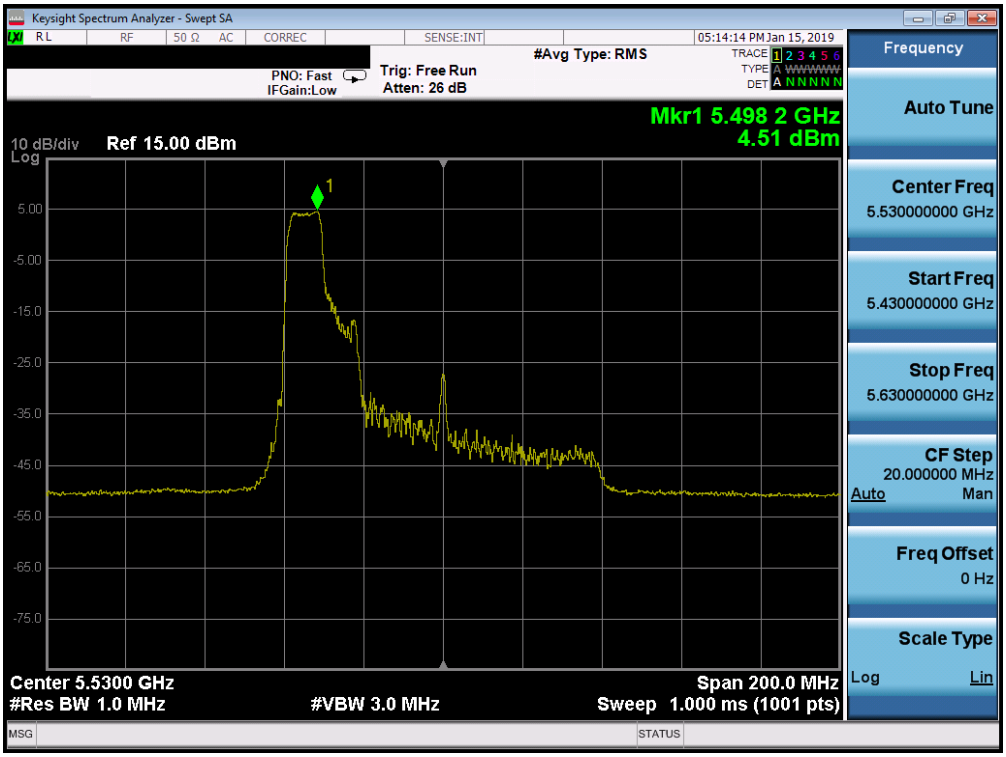


Plot 7-438. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 142)



Plot 7-439. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 106)

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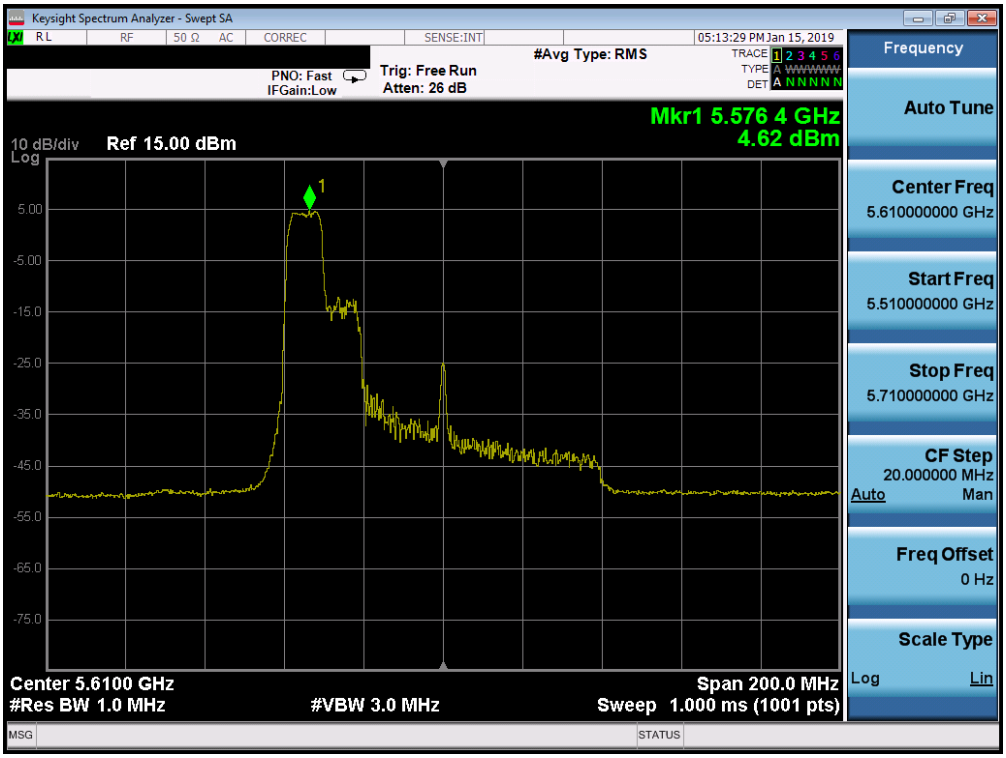
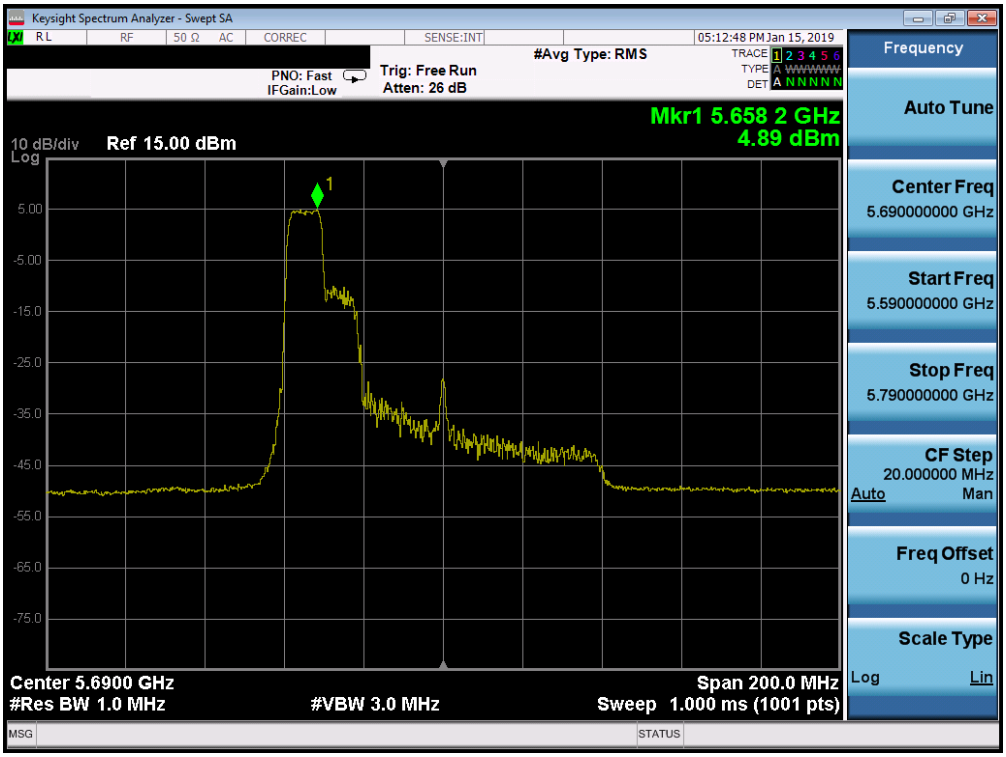


Plot 7-440. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 122)



Plot 7-441. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 138)

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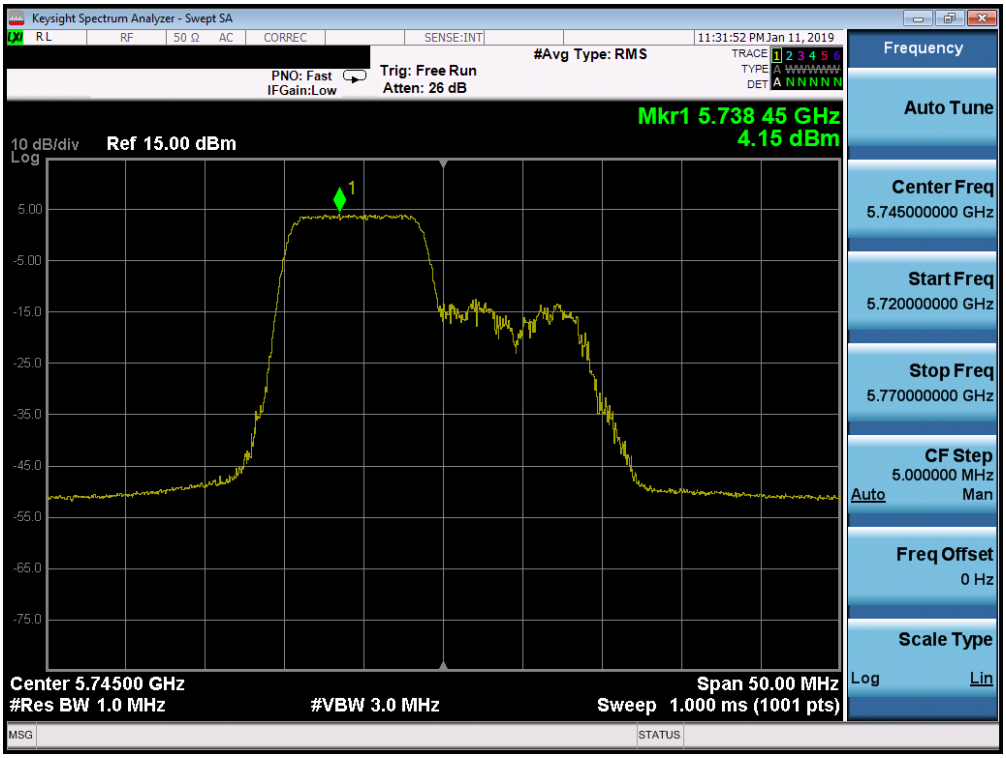
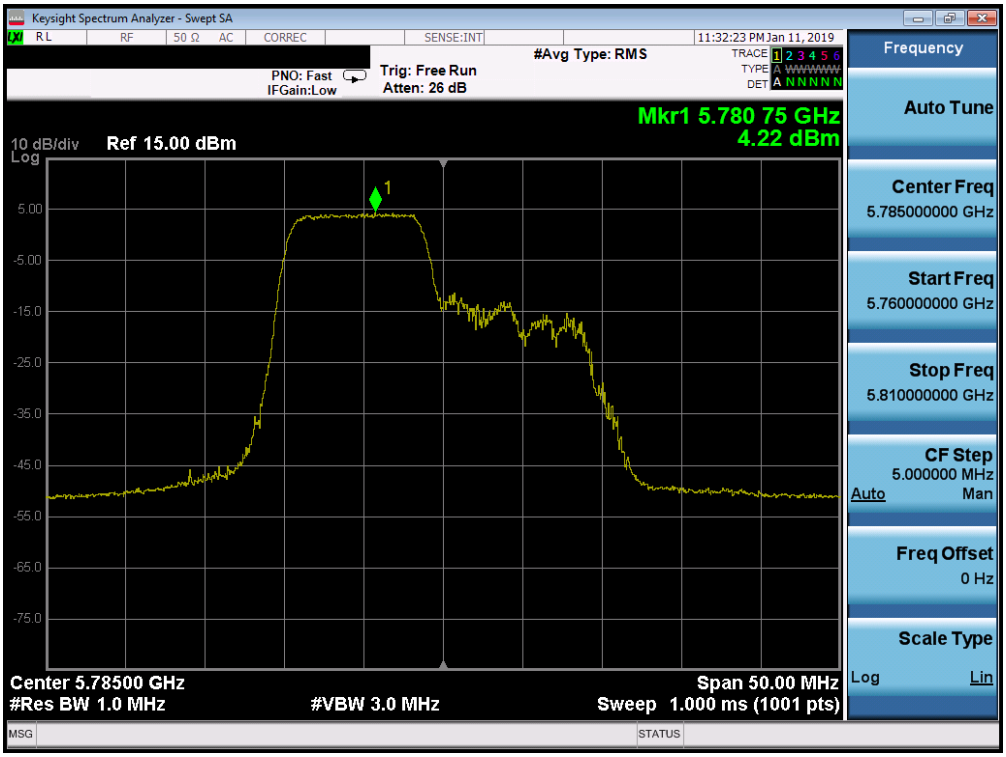


Plot 7-442. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 149)



Plot 7-443. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 157)

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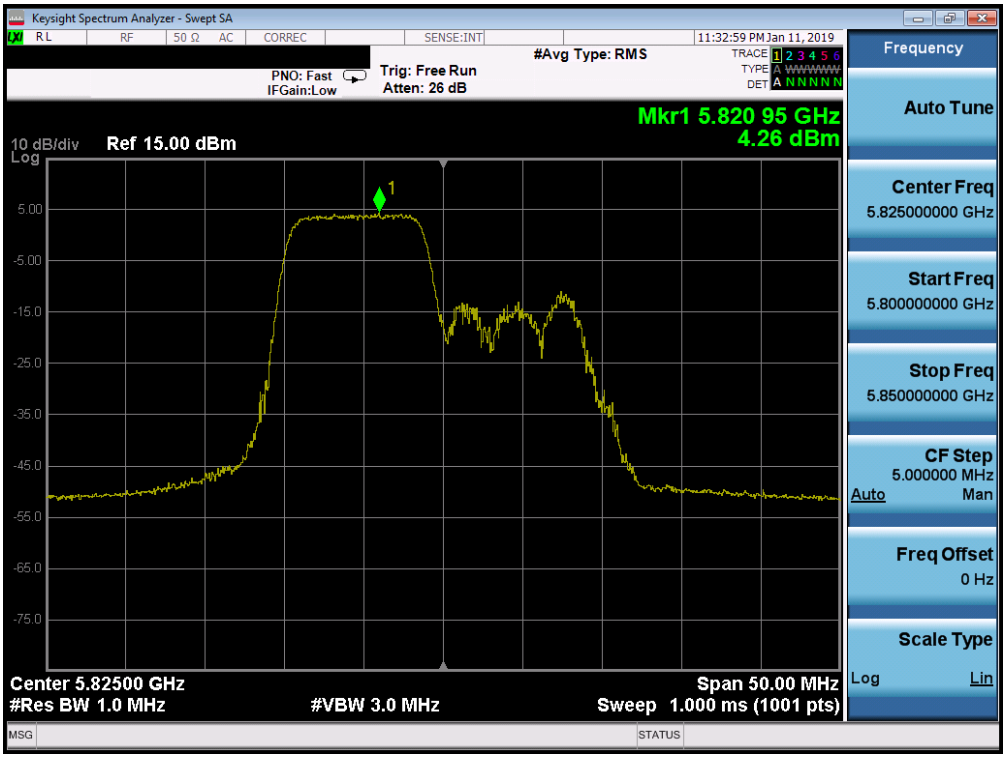
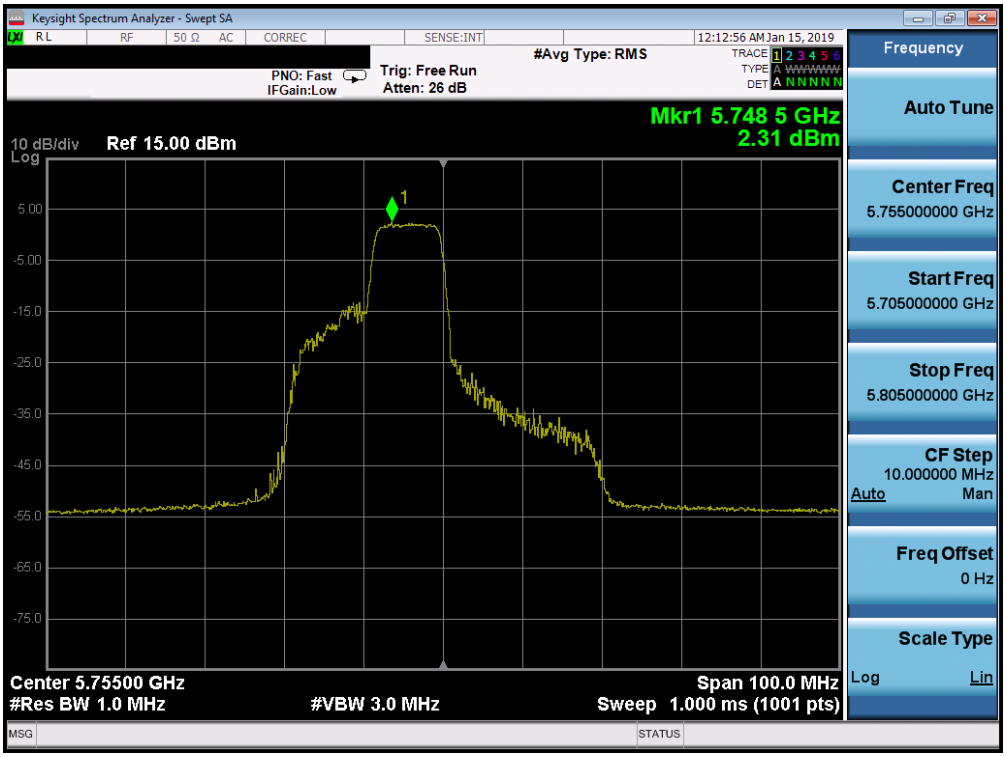


Plot 7-444. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 165)



Plot 7-445. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 151)

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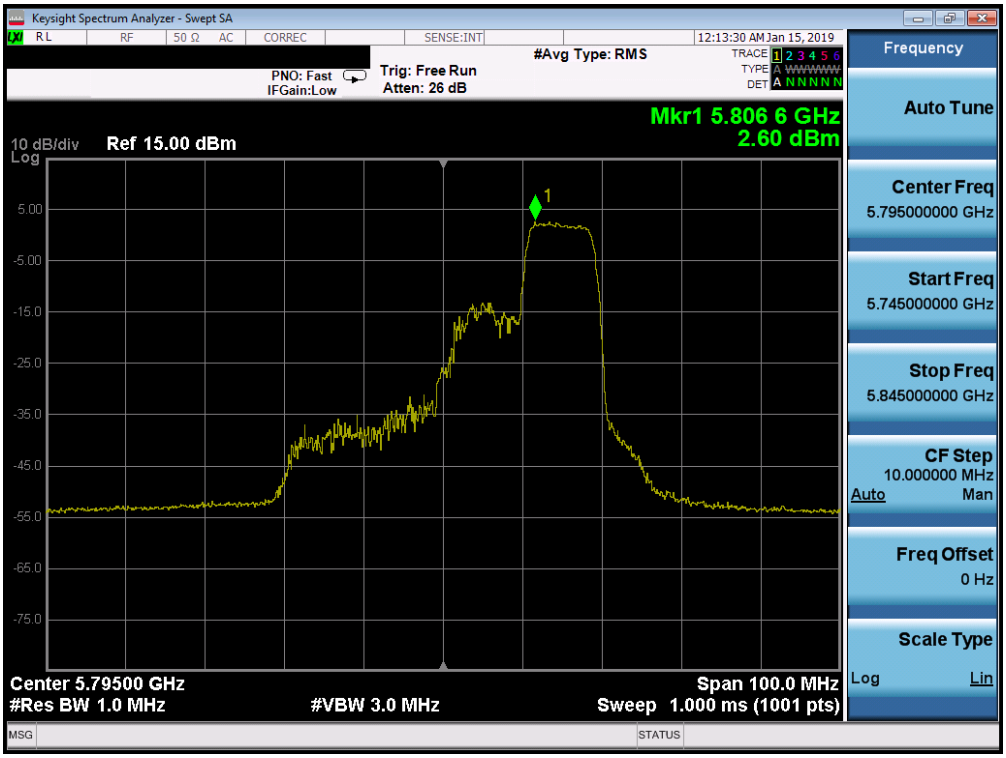
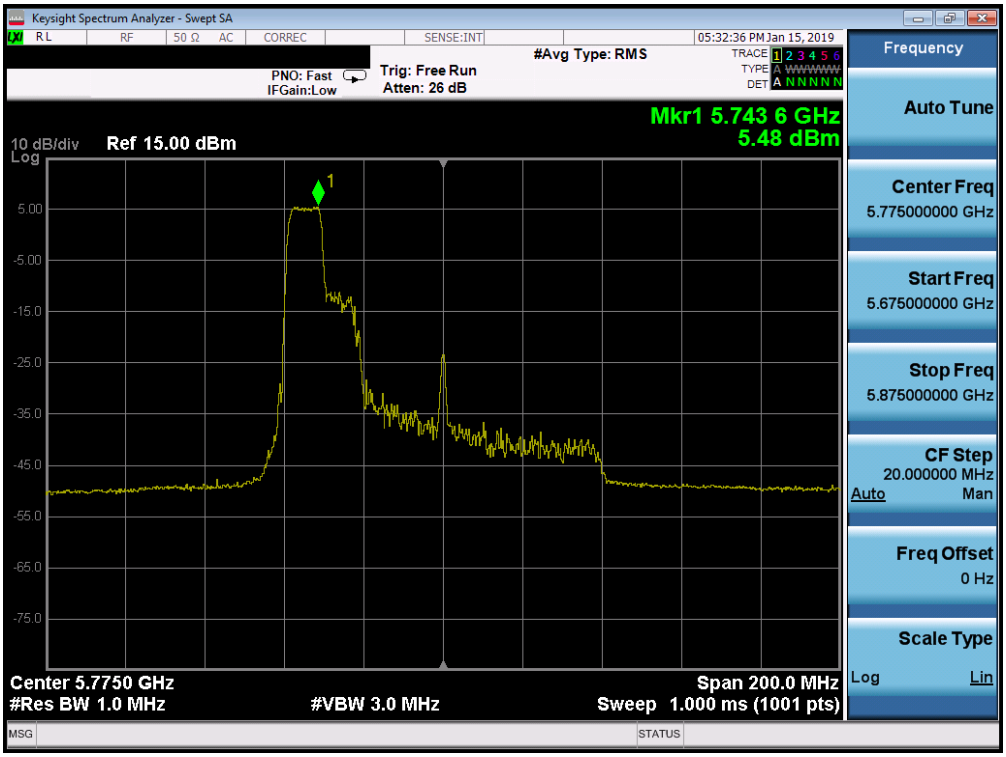


Plot 7-446. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 159)



Plot 7-447. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 155)

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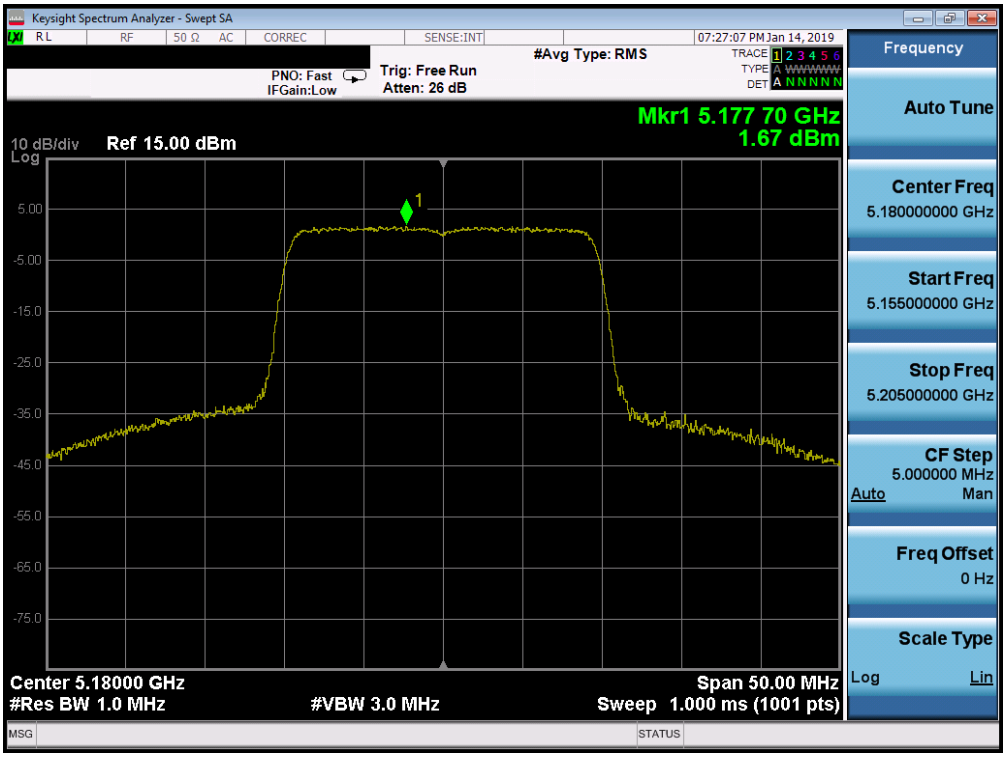
MIMO Antenna-1 Power Spectral Density Measurements (242 Tones)



Plot 7-448. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 36)

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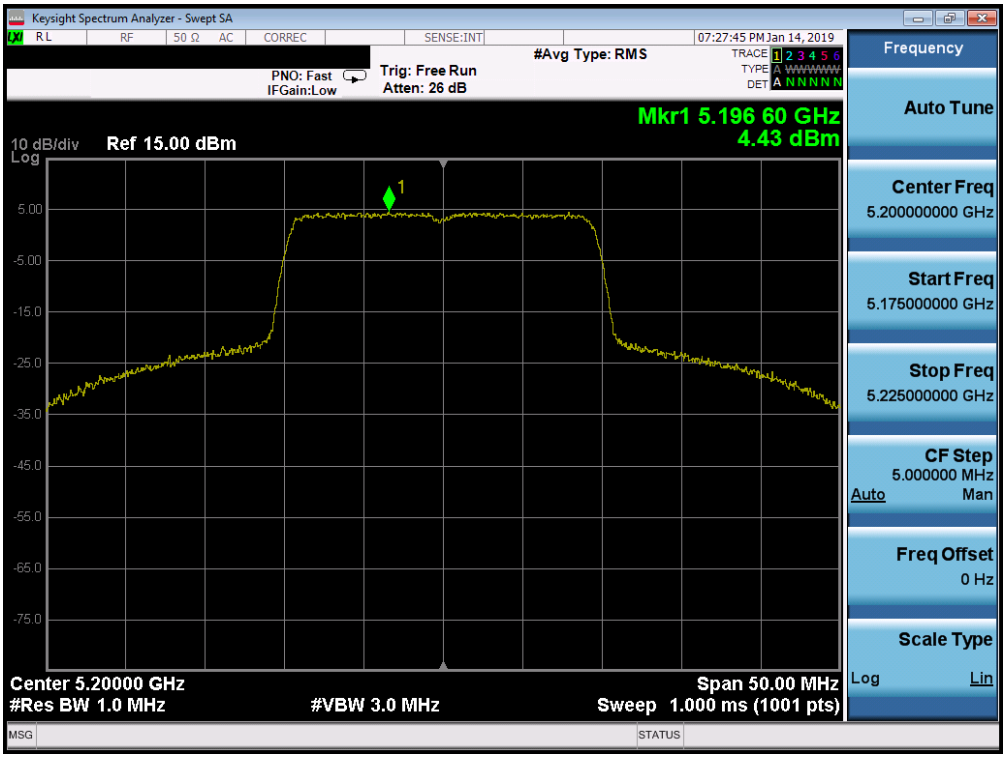
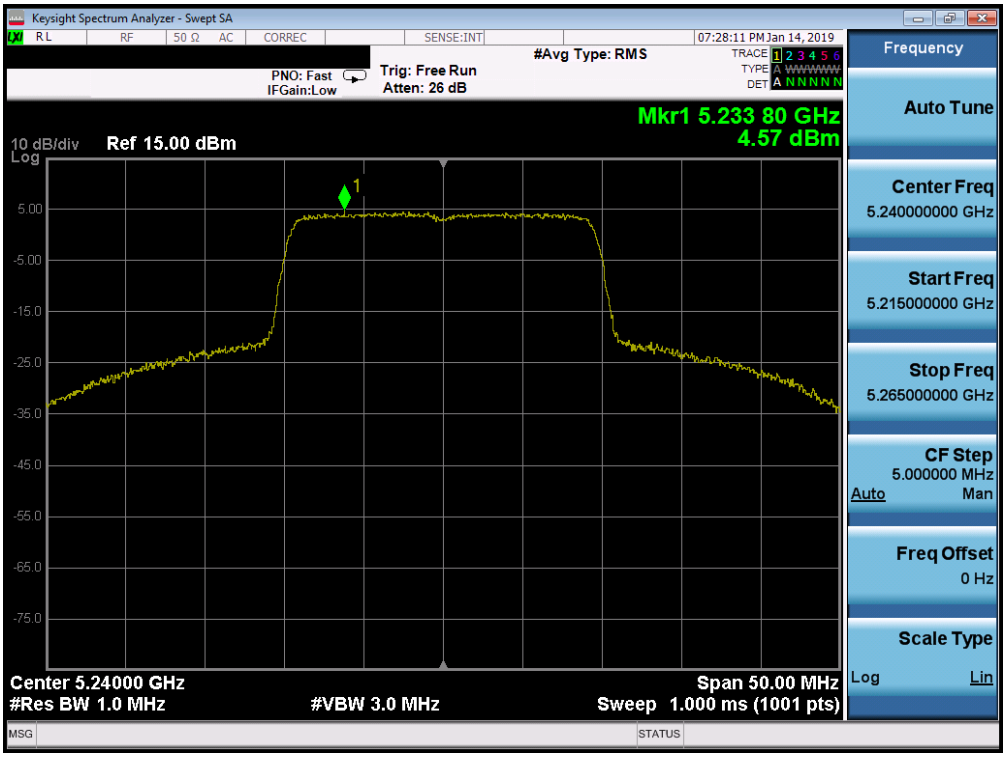


Plot 7-449. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 40)



Plot 7-450. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 48)

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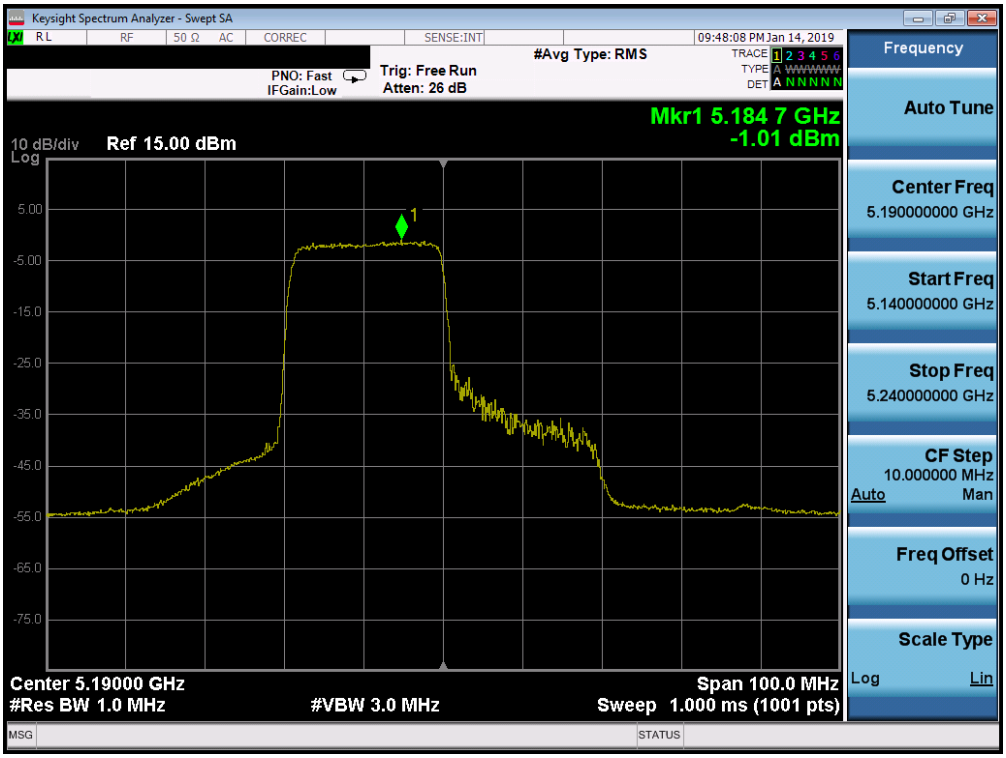
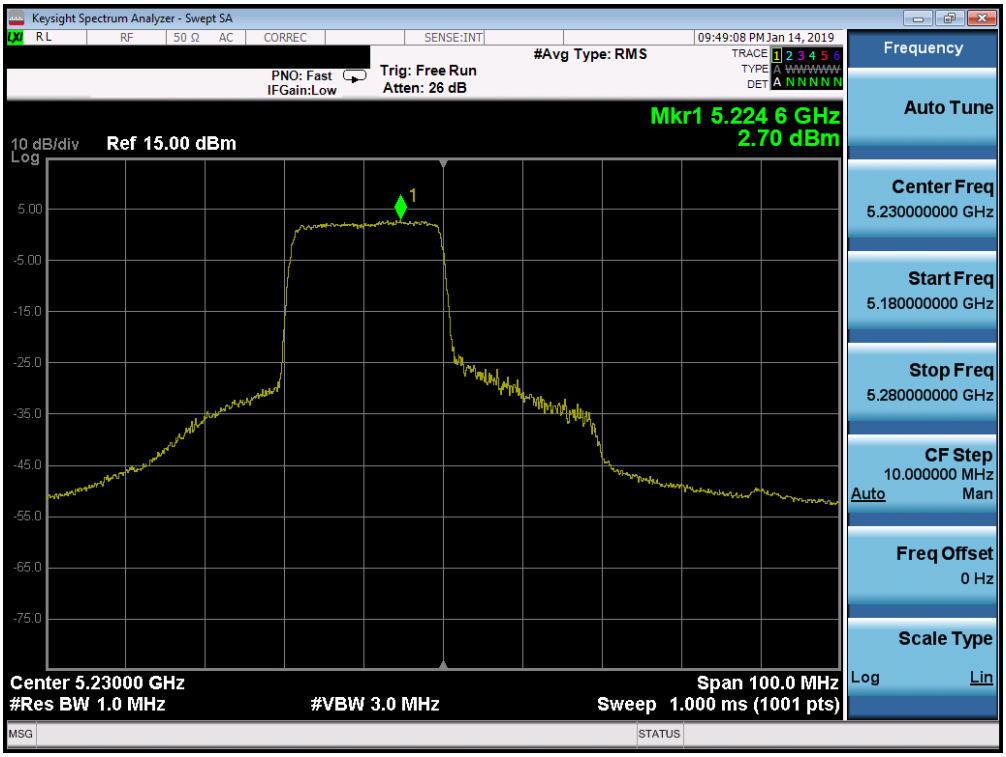


Plot 7-451. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 38)



Plot 7-452. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 46)

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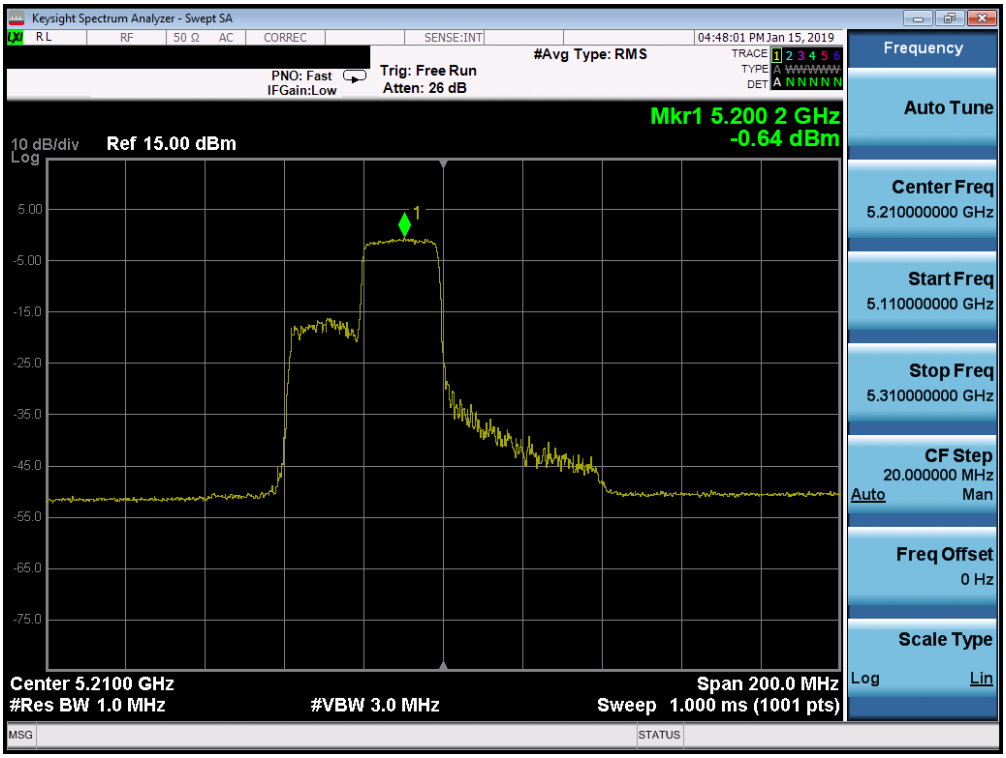
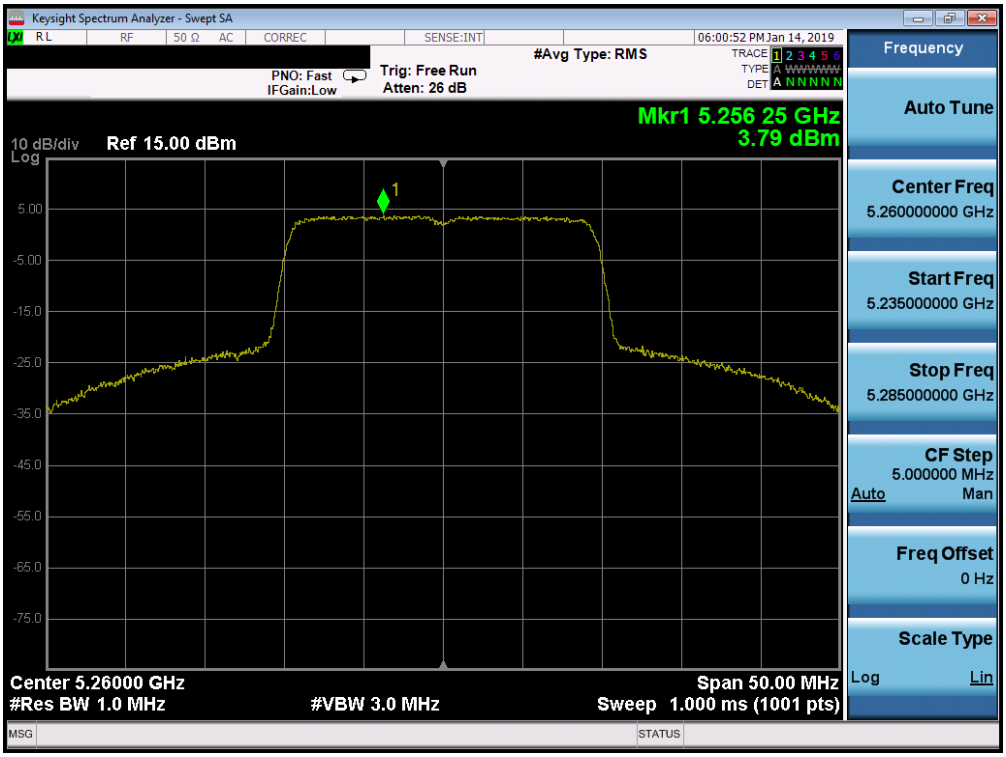


Plot 7-453. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 42)



Plot 7-454. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 52)

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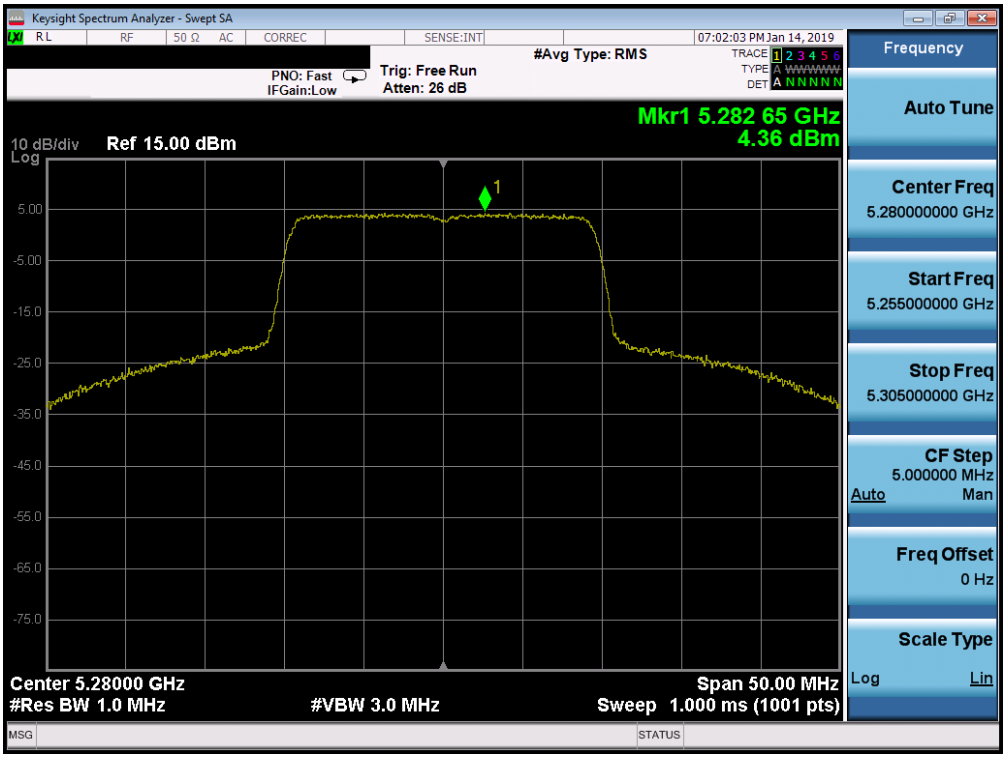
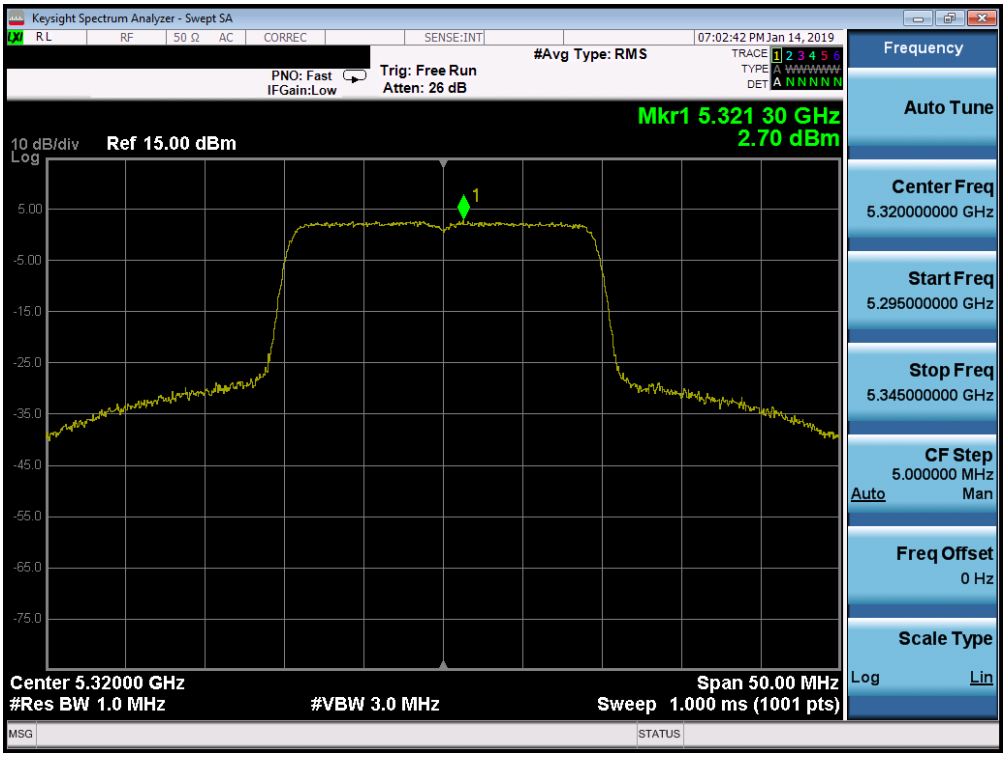


Plot 7-455. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 56)



Plot 7-456. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 64)

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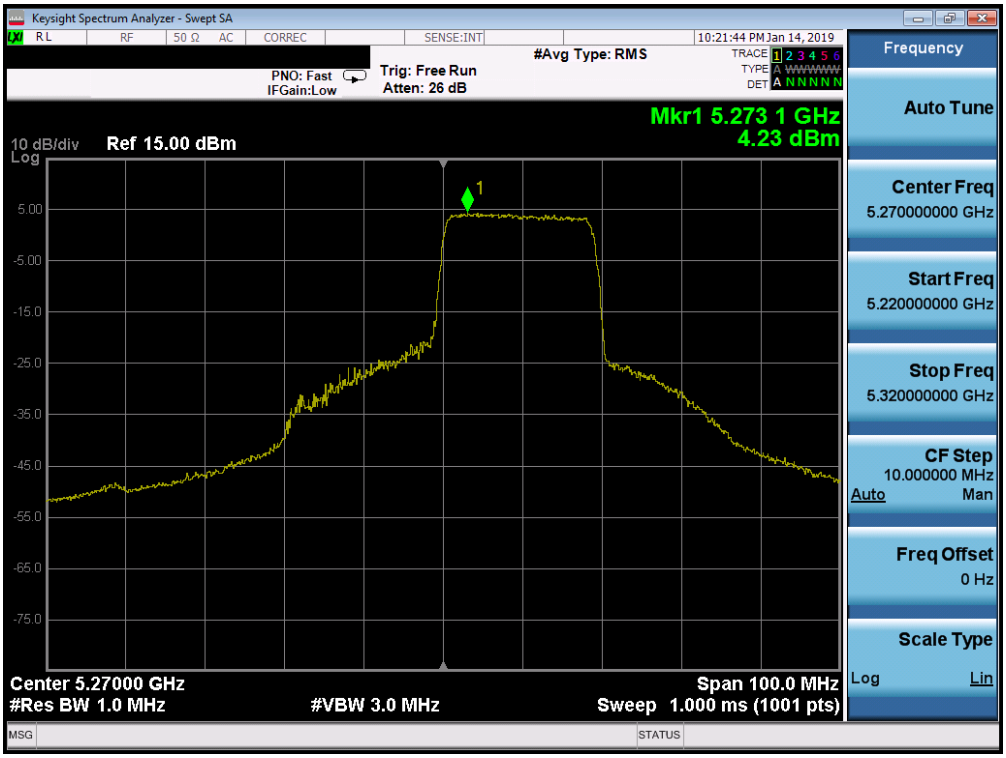
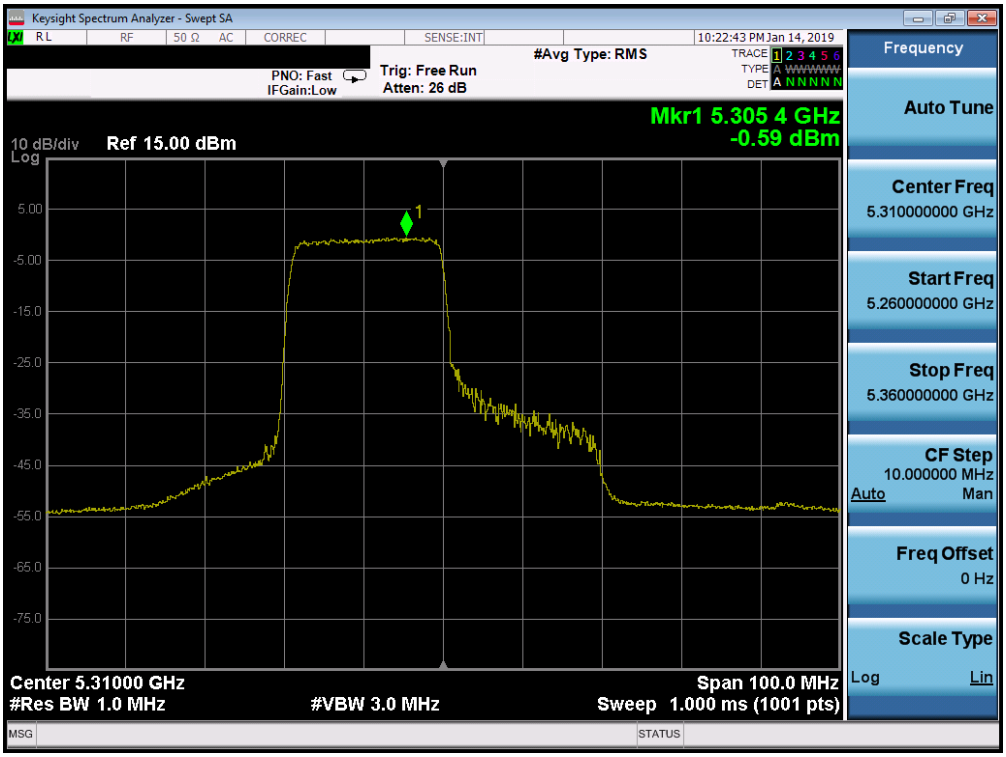


Plot 7-457. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 54)



Plot 7-458. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 62)

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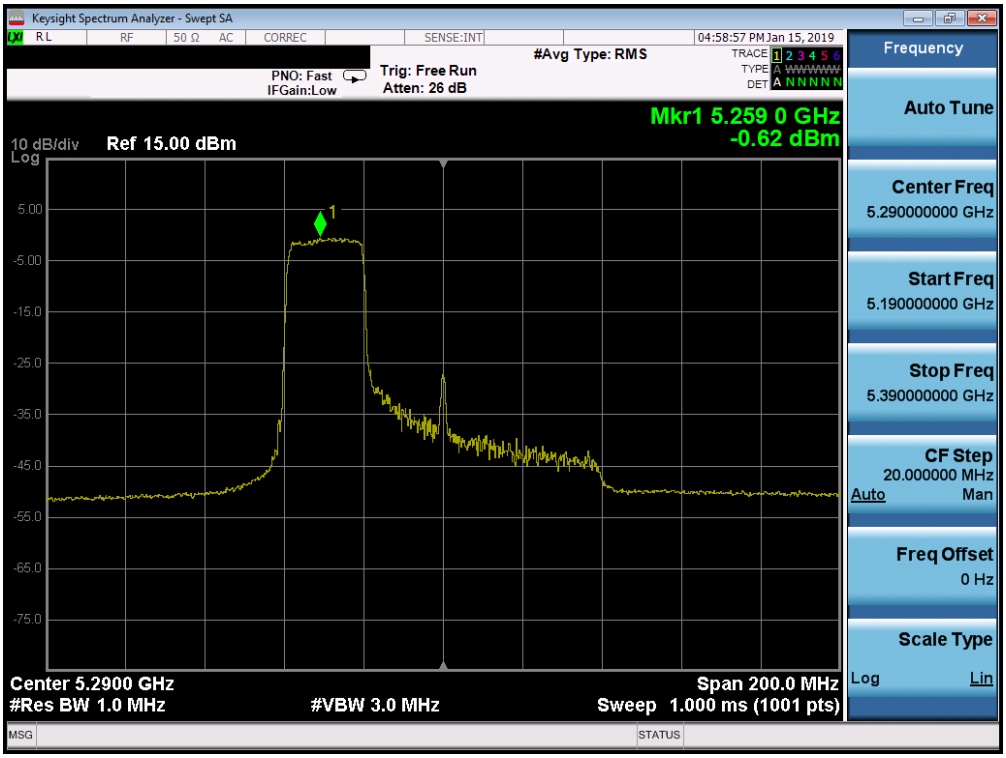
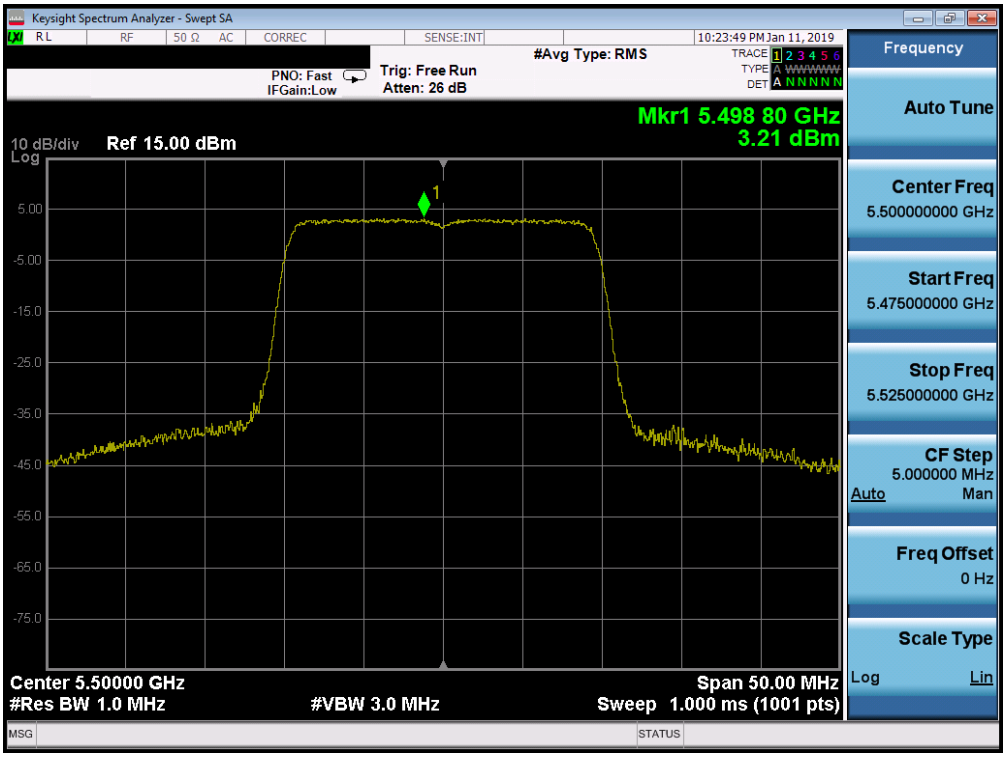


Plot 7-459. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 58)



Plot 7-460. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 100)

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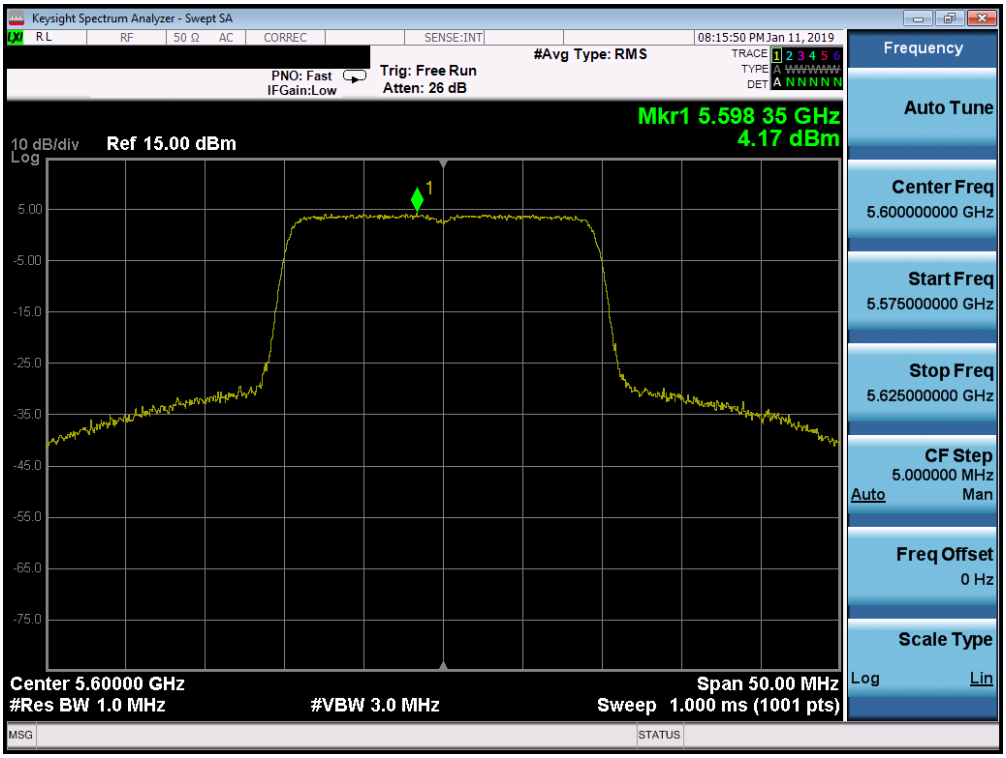
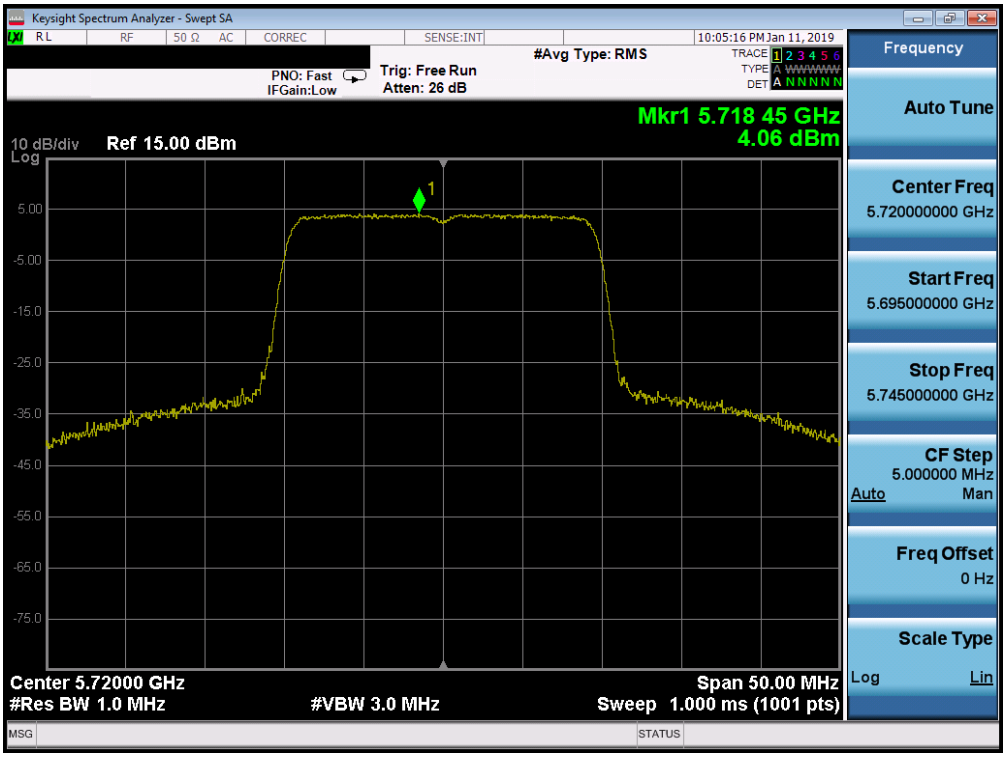


Plot 7-461. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 120)



Plot 7-462. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 144)

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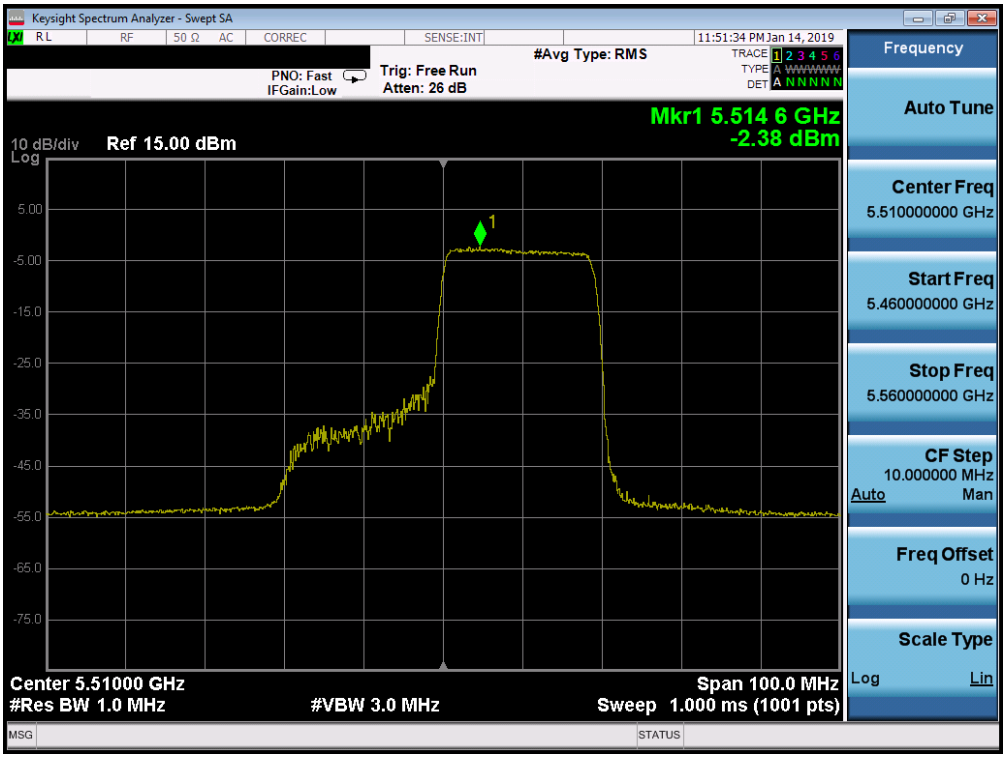
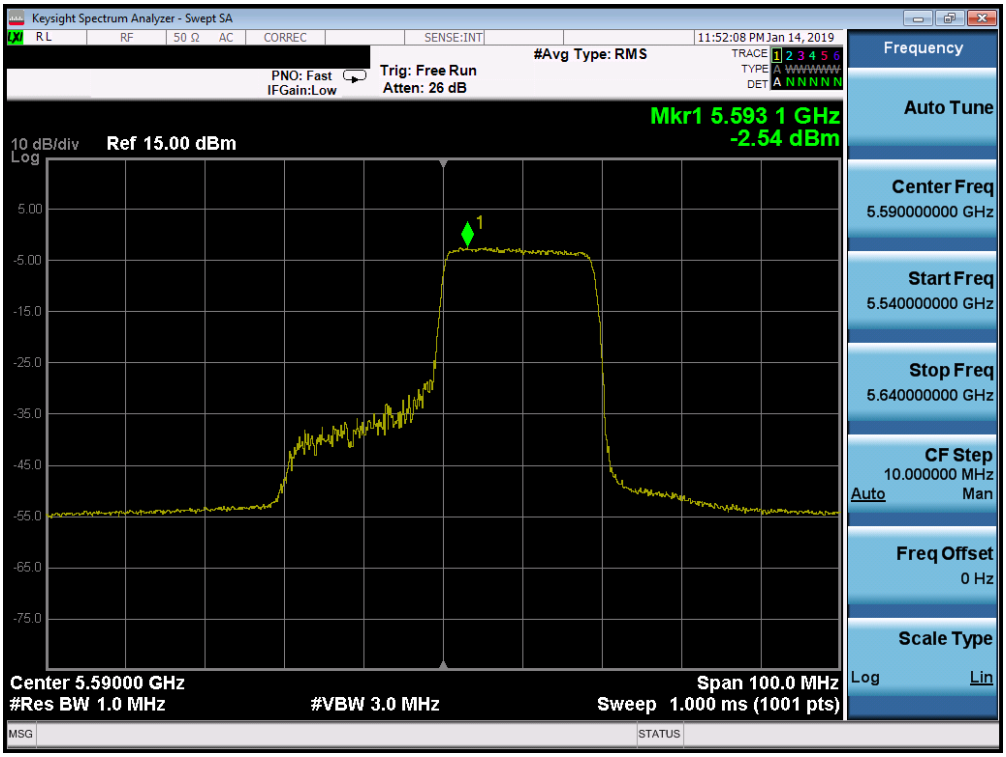


Plot 7-463. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 102)



Plot 7-464. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 118)

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