

5.3 Maximum Conducted Output Power

■ Test Requirements

Part. 15.407(a)

(1) For the band 5.15 GHz - 5.25 GHz.

(i) For an outdoor access point operating in the band 5.15 GHz - 5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15 GHz - 5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15 GHz - 5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15 GHz - 5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25 GHz - 5.35 GHz and 5.47 GHz - 5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725 GHz - 5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

■ Test Configuration



Method PM-G

■ Test Procedure

Method PM-G of KDB789033 D02v02r01

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

■ Test Results: **Comply**

- Summed Output Power: CDD

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax HE20	5 180	26	0	7.64	9.23	11.52
			4	7.13	8.71	11.00
			8	7.24	9.03	11.24
	5 200	26	0	7.73	9.19	11.53
			4	7.18	8.67	11.00
			8	7.30	8.99	11.24
	5 240	26	0	9.19	9.70	12.46
			4	8.65	9.13	11.91
			8	8.80	9.16	11.99
	5 260	26	0	8.84	9.74	12.32
			4	8.26	9.19	11.76
			8	8.42	9.48	11.99
	5 300	26	0	8.26	9.23	11.78
			4	8.23	9.23	11.77
			8	8.43	9.42	11.96
	5 320	26	0	8.88	9.61	12.27
			4	8.28	9.01	11.67
			8	8.43	9.34	11.92
	5 500	26	0	8.53	9.99	12.33
			4	7.95	9.49	11.80
			8	8.15	9.78	12.05
	5 600	26	0	8.26	9.48	11.92
			4	7.68	8.84	11.31
			8	7.90	9.11	11.56
	5 720	26	0	7.76	8.38	11.09
			4	7.20	7.74	10.49
			8	7.43	8.03	10.75
	5 745	26	0	12.32	12.04	15.19
			4	11.78	11.43	14.62
			8	12.00	11.66	14.84
	5 785	26	0	12.52	11.85	15.21
			4	11.90	11.20	14.57
			8	12.17	11.30	14.77
	5 825	26	0	12.51	12.00	15.27
			4	11.93	11.23	14.60
			8	12.32	11.55	14.96

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax HE20	5 180	52	37	9.80	11.21	13.57
			38	9.35	10.90	13.20
			40	9.42	10.99	13.29
	5 200	52	37	9.81	11.22	13.58
			38	9.33	10.89	13.19
			40	9.51	11.03	13.35
	5 240	52	37	10.27	11.42	13.89
			38	9.82	11.15	13.55
			40	9.83	11.24	13.60
	5 260	52	37	9.85	11.26	13.62
			38	9.37	10.96	13.25
			40	9.41	11.06	13.32
	5 300	52	37	9.87	11.21	13.60
			38	9.43	10.97	13.28
			40	9.43	11.01	13.30
	5 320	52	37	9.90	11.14	13.57
			38	9.44	10.83	13.20
			40	9.53	11.08	13.38
	5 500	52	37	10.49	11.49	14.03
			38	10.33	11.37	13.89
			40	10.22	11.31	13.81
	5 600	52	37	9.63	11.48	13.66
			38	9.39	11.18	13.39
			40	9.29	11.11	13.30
	5 720	52	37	10.22	10.37	13.31
			38	9.97	10.04	13.02
			40	9.88	10.00	12.95
	5 745	52	37	12.22	11.86	15.05
			38	11.96	11.51	14.75
			40	11.89	11.61	14.76
	5 785	52	37	12.41	11.62	15.04
			38	12.18	11.25	14.75
			40	12.08	11.24	14.69
	5 825	52	37	12.40	11.75	15.10
			38	12.24	11.46	14.88
			40	12.20	11.38	14.82

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax HE20	5 180	106	53	11.38	13.18	15.38
			54	11.21	13.02	15.22
	5 200	106	53	11.45	13.14	15.39
			54	11.38	13.02	15.29
	5 240	106	53	11.92	13.35	15.70
			54	11.75	13.21	15.55
	5 260	106	53	11.48	13.19	15.43
			54	11.29	13.05	15.27
	5 300	106	53	11.51	13.21	15.45
			54	11.37	13.01	15.28
	5 320	106	53	11.56	13.10	15.41
			54	11.44	12.92	15.25
	5 500	106	53	12.77	12.67	15.73
			54	12.67	12.48	15.59
	5 600	106	53	12.60	12.49	15.56
			54	12.33	12.14	15.25
	5 720	106	53	12.28	12.12	15.21
			54	12.06	11.86	14.97
	5 745	106	53	12.21	11.77	15.01
			54	11.85	11.59	14.73
	5 785	106	53	12.32	11.57	14.97
			54	12.23	11.32	14.81
	5 825	106	53	12.42	11.62	15.05
			54	12.27	11.34	14.84

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax HE20	5 180	242	61	12.94	13.10	16.03
	5 200	242	61	12.77	13.09	15.94
	5 240	242	61	13.11	13.09	16.11
	5 260	242	61	13.15	12.94	16.06
	5 300	242	61	12.81	13.01	15.92
	5 320	242	61	12.75	12.95	15.86
	5 500	242	61	12.78	12.70	15.75
	5 600	242	61	12.46	12.30	15.39
	5 720	242	61	12.25	11.88	15.08
	5 745	242	61	12.02	11.55	14.80
	5 785	242	61	12.35	11.55	14.98
	5 825	242	61	12.39	11.56	15.01
	5 180	SU	NA	12.87	13.17	16.03
802.11ax HE20	5 200	SU	NA	12.86	13.15	16.02
	5 240	SU	NA	13.17	13.08	16.14
	5 260	SU	NA	13.09	13.03	16.07
	5 300	SU	NA	12.70	13.12	15.93
	5 320	SU	NA	12.75	13.02	15.90
	5 500	SU	NA	12.79	12.71	15.76
	5 600	SU	NA	12.59	12.37	15.49
	5 720	SU	NA	12.24	11.90	15.08
	5 745	SU	NA	12.12	11.64	14.90
	5 785	SU	NA	12.27	11.59	14.95
	5 825	SU	NA	12.43	11.56	15.03

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax HE40	5 190	26	0	7.75	9.33	11.62
			8	7.23	8.76	11.07
			17	7.07	8.74	11.00
	5 230	26	0	8.99	9.63	12.33
			8	8.61	9.19	11.92
			17	8.53	9.22	11.90
	5 270	26	0	8.97	9.70	12.36
			8	8.50	9.25	11.90
			17	8.41	9.23	11.85
	5 310	26	0	8.93	9.66	12.32
			8	8.40	9.19	11.82
			17	8.32	9.13	11.75
	5 510	26	0	8.67	9.90	12.34
			8	8.09	9.54	11.89
			17	7.98	9.46	11.79
	5 590	26	0	8.55	9.84	12.25
			8	7.85	9.29	11.64
			17	7.86	9.18	11.58
	5 710	26	0	8.16	8.61	11.40
			8	7.60	8.02	10.83
			17	7.50	7.86	10.69
	5 755	26	0	12.55	12.26	15.42
			8	12.04	11.54	14.81
			17	11.51	12.90	15.27
	5 795	26	0	12.66	11.77	15.25
			8	12.10	11.16	14.67
			17	12.15	11.50	14.85

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax HE40	5 190	52	37	10.01	11.36	13.75
			40	9.59	11.01	13.37
			44	9.39	10.98	13.27
	5 230	52	37	10.08	11.50	13.86
			40	9.53	11.13	13.41
			44	9.56	11.16	13.44
	5 270	52	37	10.99	11.46	14.24
			40	10.85	11.24	14.06
			44	10.74	11.11	13.94
	5 310	52	37	10.13	11.45	13.85
			40	9.57	11.03	13.37
			44	9.47	10.92	13.27
	5 510	52	37	10.76	11.44	14.12
			40	10.26	11.24	13.79
			44	10.14	11.10	13.66
	5 590	52	37	10.58	11.41	14.03
			40	10.06	11.15	13.65
			44	9.88	10.93	13.45
	5 710	52	37	10.56	10.72	13.65
			40	10.08	10.28	13.19
			44	9.88	10.05	12.98
	5 755	52	37	12.69	12.16	15.44
			40	12.75	12.24	15.51
			44	12.09	11.51	14.82
	5 795	52	37	12.78	11.76	15.31
			40	12.42	11.22	14.87
			44	12.28	11.12	14.75

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax HE40	5 190	106	53	11.58	12.98	15.35
			54	11.39	12.93	15.24
			56	11.31	12.99	15.24
	5 230	106	53	11.69	12.95	15.38
			54	11.46	12.91	15.26
			56	11.36	12.97	15.25
	5 270	106	53	12.81	12.90	15.87
			54	12.66	12.99	15.84
			56	12.43	12.99	15.73
	5 310	106	53	11.61	12.93	15.33
			54	11.41	12.91	15.23
			56	11.27	12.92	15.18
	5 510	106	53	12.99	12.80	15.91
			54	12.82	12.48	15.66
			56	12.49	12.28	15.40
	5 590	106	53	12.95	12.71	15.84
			54	12.68	12.34	15.52
			56	12.34	12.10	15.23
	5 710	106	53	12.72	12.25	15.50
			54	12.37	11.94	15.17
			56	12.11	11.70	14.92
	5 755	106	53	12.64	12.21	15.44
			54	12.37	11.75	15.08
			56	12.15	11.60	14.89
	5 795	106	53	12.67	11.64	15.20
			54	12.46	11.43	14.99
			56	12.24	11.20	14.76

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax HE40	5 190	242	61	11.77	12.97	15.42
			62	11.57	12.75	15.21
	5 230	242	61	11.84	12.90	15.41
			62	11.61	12.85	15.28
	5 270	242	61	12.49	12.99	15.76
			62	12.27	12.85	15.58
	5 310	242	61	11.77	12.91	15.39
			62	11.50	12.75	15.18
	5 510	242	61	12.99	12.97	15.99
			62	12.75	12.58	15.68
	5 590	242	61	12.95	12.69	15.83
			62	12.71	12.31	15.52
	5 710	242	61	12.86	12.35	15.62
			62	12.52	11.95	15.25
	5 755	242	61	12.87	12.14	15.53
			62	12.43	11.74	15.11
5 795	242	61	12.91	11.69	15.35	
		62	12.61	11.22	14.98	
802.11ax HE40	5 190	484	65	13.62	13.63	16.64
	5 230	484	65	13.91	13.43	16.69
	5 270	484	65	13.90	13.59	16.76
	5 310	484	65	13.56	13.54	16.56
	5 510	484	65	13.61	13.17	16.41
	5 590	484	65	13.48	13.06	16.29
	5 710	484	65	13.25	12.76	16.02
	5 755	484	65	13.41	12.46	15.97
	5 795	484	65	13.39	12.25	15.87
802.11ax HE40	5 190	SU	NA	13.63	13.65	16.65
	5 230	SU	NA	13.95	13.51	16.75
	5 270	SU	NA	13.94	13.50	16.74
	5 310	SU	NA	13.98	13.67	16.84
	5 510	SU	NA	13.64	13.24	16.45
	5 590	SU	NA	13.47	13.11	16.30
	5 710	SU	NA	13.28	12.88	16.09
	5 755	SU	NA	13.42	12.44	15.97
	5 795	SU	NA	13.35	12.36	15.89

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax HE80	5 210	26	0	9.51	10.20	12.88
			18	8.83	9.51	12.19
			36	9.04	9.44	12.25
	5 290	26	0	9.58	10.19	12.91
			18	8.91	9.47	12.21
			36	9.03	9.29	12.17
	5 530	26	0	9.20	10.49	12.90
			18	8.43	9.63	12.08
			36	8.25	9.33	11.83
	5 610	26	0	8.99	10.08	12.58
			18	8.22	8.87	11.57
			36	8.01	8.51	11.28
	5 690	26	0	9.04	9.30	12.18
			18	8.27	8.55	11.42
			36	8.02	8.51	11.28
	5 775	26	0	13.00	12.82	15.92
			18	12.72	11.70	15.25
			36	12.40	11.24	14.87
802.11ax HE80	5 210	52	37	10.51	11.98	14.32
			44	10.01	11.27	13.70
			52	10.02	11.13	13.62
	5 290	52	37	11.89	11.99	14.95
			44	11.22	11.27	14.26
			52	11.15	10.99	14.08
	5 530	52	37	11.35	11.91	14.65
			44	10.56	11.42	14.02
			52	10.26	10.95	13.63
	5 610	52	37	10.48	12.12	14.39
			44	9.70	11.10	13.47
			52	9.56	10.52	13.08
	5 690	52	37	11.20	11.46	14.34
			44	10.46	10.55	13.52
			52	10.06	10.51	13.30
	5 775	52	37	13.38	12.75	16.09
			44	12.78	11.72	15.29
			52	12.29	11.51	14.93

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax HE80	5 210	106	53	12.31	13.00	15.68
			56	11.71	13.29	15.58
			60	11.51	13.10	15.39
	5 290	106	53	13.00	13.00	16.01
			56	13.07	13.27	16.18
			60	12.74	13.04	15.90
	5 530	106	53	13.30	13.30	16.31
			56	12.92	12.70	15.82
			60	12.67	12.24	15.47
	5 610	106	53	13.10	12.87	16.00
			56	12.55	12.07	15.33
			60	12.01	11.51	14.78
	5 690	106	53	13.36	12.93	16.16
			56	12.64	12.11	15.39
			60	12.16	11.71	14.95
	5 775	106	53	13.31	12.62	15.99
			56	12.72	11.69	15.25
			60	12.25	11.55	14.92
802.11ax HE80	5 210	242	61	12.11	13.00	15.59
			62	11.80	13.30	15.62
			64	11.54	13.00	15.34
	5 290	242	61	13.00	13.00	16.01
			62	13.02	13.10	16.07
			64	12.81	13.02	15.93
	5 530	242	61	13.00	13.33	16.18
			62	13.03	12.76	15.91
			64	12.56	12.27	15.43
	5 610	242	61	13.03	12.83	15.94
			62	12.61	12.28	15.46
			64	12.06	11.56	14.83
	5 690	242	61	13.12	12.78	15.96
			62	12.80	12.25	15.54
			64	12.15	11.58	14.88
	5 775	242	61	13.18	12.36	15.80
			62	12.64	11.75	15.23
			64	12.23	11.51	14.90

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax HE80	5 210	484	65	12.11	13.10	15.64
			66	11.71	13.17	15.51
	5 290	484	65	12.82	13.49	16.18
			66	12.36	13.12	15.77
	5 530	484	65	13.31	13.08	16.21
			66	12.68	12.47	15.59
	5 610	484	65	12.86	12.69	15.79
			66	12.20	11.68	14.96
	5 690	484	65	12.93	12.62	15.79
			66	12.34	11.79	15.08
	5 775	484	65	12.98	12.22	15.63
			66	12.34	11.51	14.96
802.11ax HE80	5 210	996	67	13.42	13.00	16.23
	5 290	996	67	13.38	13.24	16.32
	5 530	996	67	13.34	13.16	16.26
	5 610	996	67	12.99	12.61	15.81
	5 690	996	67	13.16	12.71	15.95
	5 775	996	67	13.10	12.21	15.69
802.11ax HE80	5 210	SU	NA	13.38	13.45	16.43
	5 290	SU	NA	13.45	13.28	16.38
	5 530	SU	NA	13.38	13.36	16.38
	5 610	SU	NA	12.91	12.56	15.75
	5 690	SU	NA	13.04	13.00	16.03
	5 775	SU	NA	13.48	12.26	15.92

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax HE160	5 250	26	0L	9.92	10.55	13.26
			0U	8.94	9.58	12.28
			36U	9.30	9.67	12.50
	5 570	26	0L	9.68	11.22	13.53
			0U	8.19	10.02	12.21
			36U	8.20	9.51	11.91
802.11ax HE160	5 250	52	37L	10.93	12.42	14.75
			37U	10.31	11.53	13.97
			52U	10.33	11.49	13.96
	5 570	52	37L	11.65	12.78	15.26
			37U	10.44	11.44	13.98
			52U	10.15	11.11	13.67
802.11ax HE160	5 250	106	53L	12.39	13.65	16.08
			53U	11.65	12.90	15.33
			60U	11.95	13.26	15.66
	5 570	106	53L	13.22	13.11	16.18
			53U	12.11	11.91	15.02
			60U	11.78	11.51	14.66
802.11ax HE160	5 250	242	61L	12.47	13.66	16.12
			61U	12.23	13.60	15.98
			64U	11.96	13.24	15.66
	5 570	242	61L	13.32	13.17	16.26
			61U	12.17	12.01	15.10
			64U	11.63	11.53	14.59
802.11ax HE160	5 250	484	65L	13.49	13.60	16.56
			65U	12.94	13.59	16.29
			66U	12.65	13.32	16.01
	5 570	484	65L	11.07	12.78	15.02
			65U	10.27	12.03	14.25
			66U	9.66	11.01	13.40
802.11ax HE160	5 250	996	67L	12.48	13.45	16.00
			67U	11.87	13.23	15.61
	5 570	996	67L	12.85	12.60	15.74
			67U	11.71	11.57	14.65
802.11ax HE160	5 250	2x996	68	12.07	13.20	15.68
	5 570	2x996	68	12.77	12.57	15.68
802.11ax HE160	5 250	SU	NA	13.88	13.82	16.86
	5 570	SU	NA	13.87	13.66	16.78

- Summed Output Power: SDM

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (SDM)
802.11ax HE20	5 180	26	0	7.52	8.89	11.27
			4	6.99	8.40	10.76
			8	7.05	8.69	10.96
	5 200	26	0	7.40	8.91	11.23
			4	7.14	8.34	10.79
			8	6.99	8.99	11.11
	5 240	26	0	9.07	9.40	12.25
			4	8.28	8.97	11.65
			8	8.43	8.94	11.70
	5 260	26	0	8.82	9.49	12.18
			4	7.99	8.79	11.42
			8	8.31	9.43	11.92
	5 300	26	0	8.01	9.10	11.60
			4	7.90	9.21	11.61
			8	8.04	9.17	11.65
	5 320	26	0	8.52	9.21	11.89
			4	8.27	8.67	11.48
			8	8.41	9.27	11.87
	5 500	26	0	8.28	9.61	12.01
			4	7.67	9.45	11.66
			8	7.85	9.54	11.79
	5 600	26	0	8.08	9.08	11.62
			4	7.55	8.80	11.23
			8	7.61	9.00	11.37
	5 720	26	0	7.51	8.00	10.77
			4	7.05	7.55	10.32
			8	7.18	7.76	10.49
	5 745	26	0	12.03	11.73	14.89
			4	11.62	11.41	14.53
			8	11.60	11.44	14.53
	5 785	26	0	12.13	11.74	14.95
			4	11.61	11.20	14.42
			8	12.02	11.13	14.61
	5 825	26	0	12.40	11.85	15.14
			4	11.79	10.96	14.41
			8	12.03	11.33	14.70

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (SDM)
802.11ax HE20	5 180	52	37	9.63	10.83	13.28
			38	9.33	10.78	13.13
			40	9.10	10.95	13.13
	5 200	52	37	9.49	10.88	13.25
			38	9.04	10.66	12.94
			40	9.23	10.94	13.18
	5 240	52	37	10.23	11.29	13.80
			38	9.70	10.83	13.31
			40	9.48	11.14	13.40
	5 260	52	37	9.47	11.02	13.32
			38	9.16	10.85	13.10
			40	9.09	10.91	13.10
	5 300	52	37	9.63	11.20	13.50
			38	9.11	10.62	12.94
			40	9.09	10.80	13.04
	5 320	52	37	9.74	10.78	13.30
			38	9.39	10.56	13.02
			40	9.28	10.99	13.23
	5 500	52	37	10.25	11.45	13.90
			38	10.11	11.19	13.69
			40	10.19	10.98	13.61
	5 600	52	37	9.32	11.35	13.46
			38	9.15	11.04	13.21
			40	9.20	11.02	13.21
	5 720	52	37	10.21	9.98	13.11
			38	9.62	9.88	12.76
			40	9.57	9.92	12.76
	5 745	52	37	11.97	11.72	14.86
			38	11.59	11.49	14.55
			40	11.74	11.46	14.61
	5 785	52	37	12.17	11.53	14.87
			38	11.79	11.09	14.46
			40	11.87	10.99	14.46
	5 825	52	37	12.37	11.46	14.95
			38	11.95	11.17	14.59
			40	11.88	11.36	14.64

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (SDM)
802.11ax HE20	5 180	106	53	11.31	13.05	15.28
			54	11.06	12.85	15.06
	5 200	106	53	11.17	12.79	15.07
			54	11.29	12.70	15.06
	5 240	106	53	11.61	13.13	15.45
			54	11.66	12.96	15.37
	5 260	106	53	11.18	12.87	15.12
			54	11.03	12.66	14.93
	5 300	106	53	11.27	12.81	15.12
			54	11.27	12.68	15.04
	5 320	106	53	11.55	13.04	15.37
			54	11.37	12.88	15.20
	5 500	106	53	12.54	12.53	15.55
			54	12.39	12.41	15.41
	5 600	106	53	12.25	12.32	15.30
			54	12.18	12.07	15.14
	5 720	106	53	12.09	12.03	15.07
			54	12.06	11.73	14.91
	5 745	106	53	11.91	11.49	14.72
			54	11.61	11.28	14.46
	5 785	106	53	12.18	11.26	14.75
			54	11.96	11.11	14.57
	5 825	106	53	12.42	11.49	14.99
			54	11.88	11.04	14.49

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (SDM)
802.11ax HE20	5 180	242	61	12.89	12.90	15.91
	5 200	242	61	12.44	12.83	15.65
	5 240	242	61	12.94	12.94	15.95
	5 260	242	61	12.78	12.75	15.78
	5 300	242	61	12.47	12.65	15.57
	5 320	242	61	12.75	12.72	15.75
	5 500	242	61	12.62	12.38	15.51
	5 600	242	61	12.22	12.29	15.27
	5 720	242	61	12.10	11.80	14.96
	5 745	242	61	12.01	11.45	14.75
	5 785	242	61	11.96	11.31	14.66
	5 825	242	61	12.26	11.22	14.78
802.11ax HE20	5 180	SU	NA	12.85	13.06	15.97
	5 200	SU	NA	12.82	12.78	15.81
	5 240	SU	NA	13.06	12.79	15.94
	5 260	SU	NA	12.70	13.01	15.87
	5 300	SU	NA	12.40	12.94	15.69
	5 320	SU	NA	12.58	12.72	15.66
	5 500	SU	NA	12.72	12.51	15.63
	5 600	SU	NA	12.50	12.19	15.36
	5 720	SU	NA	12.03	11.64	14.85
	5 745	SU	NA	11.75	11.52	14.65
	5 785	SU	NA	12.23	11.21	14.76
	5 825	SU	NA	12.15	11.29	14.75

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (SDM)
802.11ax HE40	5 190	26	0	7.57	9.20	11.47
			8	7.11	8.57	10.91
			17	7.01	8.43	10.79
	5 230	26	0	8.67	9.26	11.99
			8	8.58	9.14	11.88
			17	8.32	9.02	11.69
	5 270	26	0	8.90	9.46	12.20
			8	8.50	9.16	11.85
			17	8.27	9.23	11.79
	5 310	26	0	8.78	9.59	12.21
			8	8.06	9.06	11.60
			17	8.11	8.90	11.53
	5 510	26	0	8.34	9.75	12.11
			8	7.71	9.37	11.63
			17	7.71	9.13	11.49
	5 590	26	0	8.19	9.74	12.04
			8	7.83	9.12	11.53
			17	7.56	9.02	11.36
	5 710	26	0	7.92	8.37	11.16
			8	7.40	7.98	10.71
			17	7.31	7.70	10.52
	5 755	26	0	12.23	11.87	15.06
			8	11.97	11.46	14.73
			17	11.37	12.53	15.00
	5 795	26	0	12.26	11.41	14.87
			8	12.03	10.88	14.50
			17	11.97	11.22	14.62

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (SDM)
802.11ax HE40	5 190	52	37	9.77	11.28	13.60
			40	9.23	10.79	13.09
			44	9.11	10.91	13.11
	5 230	52	37	10.06	11.11	13.63
			40	9.51	11.02	13.34
			44	9.30	11.05	13.27
	5 270	52	37	10.91	11.18	14.06
			40	10.61	11.08	13.86
			44	10.36	10.97	13.69
	5 310	52	37	9.84	11.28	13.63
			40	9.54	10.79	13.22
			44	9.25	10.69	13.04
	5 510	52	37	10.60	11.18	13.91
			40	10.17	10.93	13.58
			44	9.86	10.83	13.38
	5 590	52	37	10.24	11.28	13.80
			40	10.02	10.90	13.49
			44	9.82	10.91	13.41
	5 710	52	37	10.43	10.59	13.52
			40	9.80	10.14	12.98
			44	9.82	10.04	12.94
	5 755	52	37	12.52	11.98	15.27
			40	12.44	12.13	15.30
			44	11.79	11.30	14.56
	5 795	52	37	12.39	11.45	14.96
			40	12.27	11.03	14.70
			44	11.89	11.03	14.49

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (SDM)
802.11ax HE40	5 190	106	53	11.39	12.95	15.25
			54	11.34	12.84	15.16
			56	11.07	12.85	15.06
	5 230	106	53	11.66	12.84	15.30
			54	11.43	12.76	15.16
			56	11.25	12.81	15.11
	5 270	106	53	12.70	12.83	15.78
			54	12.34	12.61	15.49
			56	12.41	12.62	15.53
	5 310	106	53	11.41	12.92	15.24
			54	11.13	12.64	14.96
			56	11.27	12.53	14.96
	5 510	106	53	12.93	12.55	15.75
			54	12.78	12.43	15.62
			56	12.47	12.05	15.28
	5 590	106	53	12.70	12.42	15.57
			54	12.32	12.22	15.28
			56	12.28	12.05	15.18
	5 710	106	53	12.58	12.12	15.37
			54	12.25	11.83	15.06
			56	11.87	11.69	14.79
	5 755	106	53	12.37	12.05	15.22
			54	12.16	11.43	14.82
			56	11.89	11.33	14.63
	5 795	106	53	12.47	11.57	15.05
			54	12.23	11.06	14.69
			56	12.20	10.89	14.60

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (SDM)
802.11ax HE40	5 190	242	61	11.37	12.72	15.11
			62	11.51	12.48	15.03
	5 230	242	61	11.76	12.53	15.17
			62	11.54	12.72	15.18
	5 270	242	61	12.33	12.70	15.53
			62	12.20	12.49	15.36
	5 310	242	61	11.65	12.59	15.16
			62	11.25	12.67	15.03
	5 510	242	61	12.89	12.80	15.86
			62	12.38	12.49	15.45
	5 590	242	61	12.73	12.54	15.65
			62	12.36	12.24	15.31
	5 710	242	61	12.75	12.20	15.49
			62	12.50	11.67	15.12
	5 755	242	61	12.64	11.97	15.33
			62	12.15	11.63	14.91
802.11ax HE40	5 190	484	65	13.36	13.54	16.46
			65	13.91	13.38	16.66
	5 230	484	65	13.71	13.49	16.61
			65	13.18	13.42	16.31
	5 270	484	65	13.51	12.77	16.17
			65	13.34	12.83	16.10
	5 310	484	65	12.92	12.47	15.71
			65	13.38	12.13	15.81
	5 755	484	65	13.39	12.02	15.77
802.11ax HE40	5 190	SU	NA	13.35	13.57	16.47
			NA	13.73	13.33	16.54
	5 230	SU	NA	13.86	13.28	16.59
			NA	13.76	13.59	16.69
	5 270	SU	NA	13.32	13.10	16.22
			NA	13.25	12.84	16.06
	5 310	SU	NA	13.10	12.65	15.89
			NA	13.08	12.44	15.78
	5 755	SU	NA	13.16	12.33	15.78

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (SDM)
802.11ax HE80	5 210	26	0	9.13	9.92	12.55
			18	8.56	9.45	12.04
			36	8.72	9.37	12.07
	5 290	26	0	9.37	9.89	12.65
			18	8.91	9.14	12.04
			36	8.90	8.99	11.96
	5 530	26	0	8.82	10.39	12.69
			18	8.04	9.33	11.74
			36	8.25	9.06	11.68
	5 610	26	0	8.74	9.71	12.26
			18	7.82	8.85	11.38
			36	7.97	8.30	11.15
	5 690	26	0	8.97	9.28	12.14
			18	7.96	8.17	11.08
			36	7.86	8.47	11.19
	5 775	26	0	12.77	12.68	15.74
			18	12.58	11.47	15.07
			36	12.14	10.91	14.58
802.11ax HE80	5 210	52	37	10.20	11.64	13.99
			44	9.81	11.18	13.56
			52	9.91	11.08	13.54
	5 290	52	37	11.87	11.79	14.84
			44	11.09	11.04	14.08
			52	10.90	10.71	13.82
	5 530	52	37	11.14	11.62	14.40
			44	10.48	11.19	13.86
			52	9.99	10.60	13.32
	5 610	52	37	10.18	11.88	14.12
			44	9.42	10.86	13.21
			52	9.55	10.12	12.85
	5 690	52	37	10.94	11.31	14.14
			44	10.36	10.49	13.44
			52	10.03	10.36	13.21
	5 775	52	37	13.01	12.57	15.81
			44	12.39	11.41	14.94
			52	11.97	11.50	14.75

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (SDM)
802.11ax HE80	5 210	106	53	12.05	12.94	15.53
			56	11.67	12.90	15.34
			60	11.47	13.02	15.32
	5 290	106	53	12.78	12.67	15.74
			56	12.76	13.01	15.90
			60	12.50	12.88	15.70
	5 530	106	53	13.22	12.97	16.11
			56	12.68	12.31	15.51
			60	12.66	11.93	15.32
	5 610	106	53	12.70	12.66	15.69
			56	12.43	12.01	15.24
			60	11.97	11.28	14.65
	5 690	106	53	13.08	12.79	15.95
			56	12.40	12.04	15.23
			60	11.93	11.48	14.72
	5 775	106	53	13.01	12.35	15.70
			56	12.55	11.60	15.11
			60	12.22	11.29	14.79
802.11ax HE80	5 210	242	61	12.11	12.63	15.39
			62	11.50	13.21	15.45
			64	11.19	12.89	15.13
	5 290	242	61	12.99	12.81	15.91
			62	12.88	12.96	15.93
			64	12.53	12.99	15.78
	5 530	242	61	12.77	13.31	16.06
			62	12.64	12.74	15.70
			64	12.51	11.99	15.27
	5 610	242	61	12.79	12.74	15.78
			62	12.23	12.13	15.19
			64	12.06	11.25	14.68
	5 690	242	61	12.82	12.51	15.68
			62	12.47	12.07	15.28
			64	11.82	11.18	14.52
	5 775	242	61	12.89	11.97	15.46
			62	12.46	11.70	15.11
			64	12.14	11.22	14.71

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (SDM)
802.11ax HE80	5 210	484	65	11.96	12.96	15.50
			66	11.50	12.97	15.31
	5 290	484	65	12.55	13.28	15.94
			66	12.02	12.76	15.42
	5 530	484	65	13.21	12.68	15.96
			66	12.36	12.08	15.23
	5 610	484	65	12.70	12.60	15.66
			66	11.87	11.68	14.79
802.11ax HE80	5 690	484	65	12.56	12.35	15.47
			66	12.09	11.42	14.78
	5 775	484	65	12.89	11.88	15.42
			66	12.28	11.29	14.82
	5 210	996	67	13.02	12.76	15.90
	5 290	996	67	13.03	13.03	16.04
802.11ax HE80	5 530	996	67	13.20	13.10	16.16
	5 610	996	67	12.69	12.37	15.54
	5 690	996	67	12.81	12.63	15.73
	5 775	996	67	12.74	12.02	15.41
	5 210	SU	NA	13.25	13.23	16.25
	5 290	SU	NA	13.07	13.22	16.16
802.11ax HE80	5 530	SU	NA	13.21	13.28	16.26
	5 610	SU	NA	12.81	12.33	15.59
	5 690	SU	NA	12.64	12.63	15.65
	5 775	SU	NA	13.12	11.91	15.57

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]		
				ANT 1	ANT 2	ANT1+ANT2 (SDM)
802.11ax HE160	5 250	26	0L	9.70	10.41	13.08
			0U	8.84	9.52	12.20
			36U	9.05	9.33	12.20
	5 570	26	0L	9.53	10.86	13.26
			0U	7.97	9.81	12.00
			36U	8.01	9.37	11.75
802.11ax HE160	5 250	52	37L	10.57	12.29	14.52
			37U	10.01	11.39	13.76
			52U	10.20	11.39	13.85
	5 570	52	37L	11.52	12.44	15.01
			37U	10.30	11.12	13.74
			52U	10.13	10.89	13.54
802.11ax HE160	5 250	106	53L	12.36	13.29	15.86
			53U	11.50	12.87	15.25
			60U	11.60	12.98	15.35
	5 570	106	53L	12.85	12.99	15.93
			53U	11.84	11.72	14.79
			60U	11.54	11.26	14.41
802.11ax HE160	5 250	242	61L	12.20	13.63	15.98
			61U	12.09	13.33	15.76
			64U	11.92	12.93	15.46
	5 570	242	61L	12.92	12.98	15.96
			61U	11.78	11.68	14.74
			64U	11.53	11.42	14.49
802.11ax HE160	5 250	484	65L	13.43	13.32	16.39
			65U	12.91	13.38	16.16
			66U	12.52	12.97	15.76
	5 570	484	65L	10.69	12.44	14.66
			65U	10.10	11.94	14.13
			66U	9.46	11.00	13.31
802.11ax HE160	5 250	996	67L	12.27	13.33	15.84
			67U	11.66	12.91	15.34
	5 570	996	67L	12.61	12.44	15.54
			67U	11.70	11.37	14.55
802.11ax HE160	5 250	2x996	68	12.07	12.97	15.55
	5 570	2x996	68	12.74	12.21	15.49
802.11ax HE160	5 250	SU	NA	13.82	13.70	16.77
	5 570	SU	NA	13.84	13.64	16.75

5.4 Maximum Power Spectral Density

■ Test requirements

Part. 15.407(a)

(1) For the band 5.15 GHz - 5.25 GHz.

(i) For an outdoor access point operating in the band 5.15 GHz - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band. ^{note1}

(ii) For an indoor access point operating in the band 5.15 GHz - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band. ^{note1}

(iii) For fixed point-to-point access points operating in the band 5.15 GHz - 5.25 GHz, transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.

(iv) For mobile and portable client devices in the 5.15 GHz - 5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 MHz band. ^{note1}

(2) For the 5.25 GHz - 5.35 GHz and 5.47 GHz - 5.725 GHz bands, the peak power spectral density shall not exceed 11 dBm in any 1 MHz band. ^{note1}

(3) For the band 5.725 GHz - 5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500 kHz band. ^{note1,note2}

Note1: If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note2: Fixed point - to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

■ Test Configuration

Refer to the APPENDIX I.

■ Test Procedure

Maximum Power Spectral Density is measured using Measurement Procedure of KDB789033 D02v02r01

- 1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA - 1, SA - 2, SA - 3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
- 2) Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- 3) Make the following adjustments to the peak value of the spectrum, if applicable:
 - a) If Method SA - 2 or SA - 2 Alternative was used, add $10 \log(1 / x)$, where x is the duty cycle, to the peak of the spectrum.
 - b) If Method SA - 3 Alternative was used and the linear mode was used in step II.E.2.g (viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.**
- 4) The result is the Maximum PSD over 1 MHz reference bandwidth.
- 5) For devices operating in the bands 5.15 - 5.25 GHz, 5.25 - 5.35 GHz, and 5.47 - 5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in §15.407(a)(5). For devices operating in the band 5.725 - 5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a

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reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

- a) Set RBW = 1 MHz.
- b) Set VBW $\geq 1 / T$, where T is defined in item a1) in 12.2.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log(500 \text{ kHz} / \text{RBW})$ to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log(1 \text{ MHz} / \text{RBW})$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- g) Detector = peak.
- h) Video filtering shall be applied to a voltage-squared or power signal (i.e., rms mode), if possible. Otherwise, it shall be set to operate on a linear voltage signal (which can require use of linear display mode). Log mode shall not be used:
 - 1) **The preferred voltage-squared (i.e., power or rms) mode is selected on some instruments by setting the “average-VBW type” to power or rms.**
 - 2) If RMS mode is not available, then linear voltage mode is selected on some analyzers by setting the display mode to linear. Other instruments have a setting for “average-VBW type” that can be set to “voltage” regardless of the display mode.
- i) Trace mode = max hold.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since RBW = 100 kHz is available on nearly all spectrum analyzers.

■ Test Results: **Comply**

Mode	Frequency [MHz]	Tone	RU Index	Reading (dBm)		Power Spectral Density(dBm)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax (HE20)	5 180	26	0	6.62	7.17	9.91
			4	4.99	5.75	8.40
			8	6.51	7.21	9.88
	5 200	26	0	6.81	7.31	10.08
			4	5.23	5.77	8.52
			8	6.70	7.22	9.98
	5 240	26	0	6.65	6.67	9.67
			4	4.94	4.97	7.96
			8	6.35	6.60	9.48
	5 260	26	0	6.52	6.88	9.71
			4	3.57	5.30	7.53
			8	6.15	6.82	9.50
	5 300	26	0	6.47	6.70	9.60
			4	3.49	5.02	7.33
			8	6.17	6.64	9.42
	5 320	26	0	6.49	6.62	9.57
			4	4.83	5.02	7.93
			8	4.97	6.67	8.91
	5 500	26	0	5.48	7.88	9.85
			4	3.83	6.17	8.16
			8	3.33	7.82	9.14
	5 600	26	0	5.56	7.92	9.91
			4	1.61	6.29	7.56
			8	5.39	7.76	9.75
	5 720	26	0	5.12	7.55	9.51
			4	3.23	5.85	7.74
			8	4.82	7.39	9.31

Mode	Frequency [MHz]	Tone	RU Index	Reading (dBm)		Power Spectral Density(dBm)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax (HE20)	5 180	242	61	4.69	2.91	6.90
	5 200	242	61	4.59	2.84	6.81
	5 240	242	61	4.60	2.70	6.76
	5 260	242	61	3.23	2.58	5.92
	5 300	242	61	4.26	2.38	6.43
	5 320	242	61	4.31	2.28	6.42
	5 500	242	61	4.50	2.86	6.77
	5 600	242	61	4.07	2.11	6.21
802.11ax (HE20)	5 720	242	61	4.27	1.68	6.18
	5 180	SU	NA	4.86	2.87	6.99
	5 200	SU	NA	4.82	2.88	6.97
	5 240	SU	NA	3.61	2.69	6.18
	5 260	SU	NA	4.86	2.54	6.86
	5 300	SU	NA	4.69	2.31	6.68
	5 320	SU	NA	3.48	2.23	5.91
	5 500	SU	NA	4.74	2.76	6.87
	5 600	SU	NA	2.35	2.03	5.20
	5 720	SU	NA	4.64	1.64	6.41

Mode	Frequency [MHz]	Tone	RU Index	Reading (dBm)		Power Spectral Density(dBm)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax (HE40)	5 190	26	0	6.56	7.27	9.94
			8	4.92	6.92	9.04
			17	6.44	6.99	9.73
	5 230	26	0	6.66	6.81	9.74
			8	6.24	6.51	9.39
			17	6.40	6.61	9.52
	5 270	26	0	6.51	6.89	9.71
			8	5.87	6.48	9.19
			17	6.06	6.69	9.39
	5 310	26	0	6.38	6.72	9.56
			8	5.92	6.37	9.16
			17	6.04	5.36	8.72
	5 510	26	0	5.68	7.69	9.81
			8	5.08	7.28	9.33
			17	5.05	7.29	9.32
	5 590	26	0	5.82	8.09	10.11
			8	5.17	7.44	9.46
			17	5.12	7.31	9.36
	5 710	26	0	5.14	7.58	9.54
			8	2.66	7.00	8.36
			17	2.68	6.97	8.35
802.11ax (HE40)	5 190	484	65	2.72	0.58	4.79
	5 230	484	65	2.82	0.39	4.78
	5 270	484	65	2.57	0.19	4.55
	5 310	484	65	2.42	0.10	4.42
	5 510	484	65	2.49	0.63	4.67
	5 590	484	65	2.32	0.15	4.38
	5 710	484	65	2.49	-0.26	4.34
802.11ax (HE40)	5 190	SU	NA	2.73	0.42	4.73
	5 230	SU	NA	2.84	0.23	4.74
	5 270	SU	NA	2.71	0.03	4.58
	5 310	SU	NA	2.52	-0.10	4.41
	5 510	SU	NA	2.56	0.43	4.63
	5 590	SU	NA	2.54	-0.06	4.44
	5 710	SU	NA	2.60	-0.37	4.37

Mode	Frequency [MHz]	Tone	RU Index	Reading (dBm)		Power Spectral Density(dBm)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax (HE80)	5 210	26	0	5.14	6.88	9.11
			18	6.34	6.74	9.55
			36	6.57	6.66	9.62
	5 290	26	0	6.49	5.64	9.10
			18	5.91	6.58	9.27
			36	6.10	6.53	9.33
	5 530	26	0	6.06	8.03	10.16
			18	5.17	7.23	9.33
			36	4.84	6.83	8.95
	5 610	26	0	4.15	8.45	9.82
			18	5.18	7.19	9.31
			36	5.02	7.07	9.17
802.11ax (HE80)	5 690	26	0	5.75	8.05	10.06
			18	4.82	7.24	9.21
			36	4.46	7.05	8.95
	5 210	996	67	0.33	-2.07	2.31
	5 290	996	67	-0.09	-2.30	1.95
802.11ax (HE80)	5 530	996	67	-2.03	-2.01	0.99
	5 610	996	67	-0.43	-2.46	1.68
	5 690	996	67	-1.80	-2.60	0.83
802.11ax (HE80)	5 210	SU	NA	0.49	-2.07	2.41
	5 290	SU	NA	0.13	-2.33	2.08
	5 530	SU	NA	0.15	-2.01	2.22
	5 610	SU	NA	-0.17	-2.57	1.81
	5 690	SU	NA	0.22	-2.66	2.02

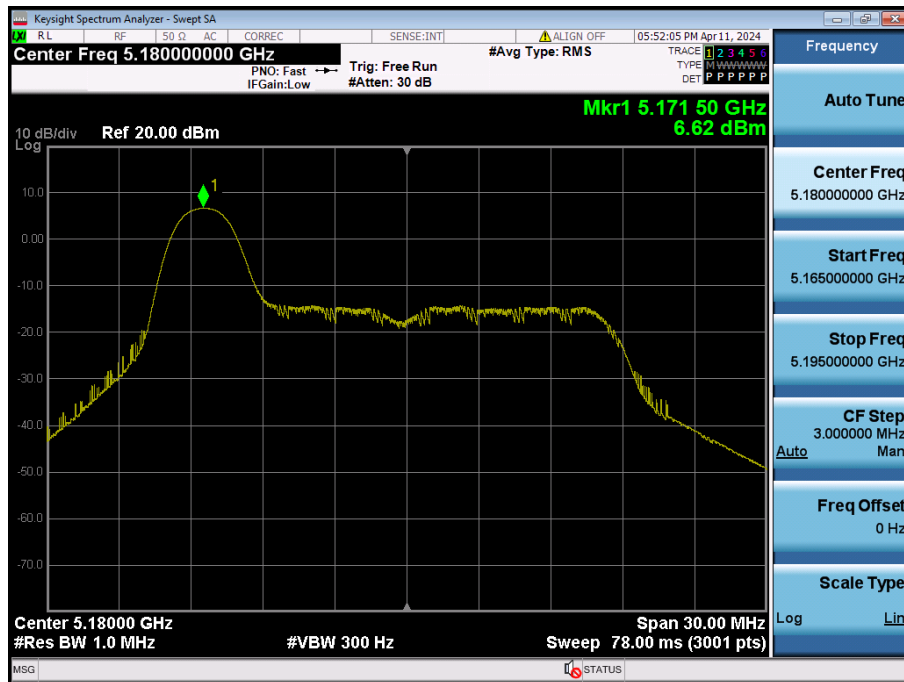
Mode	Frequency [MHz]	Tone	RU Index	Reading (dBm)		Power Spectral Density(dBm)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax (HE160)	5 250	26	0	7.18	6.93	10.07
			18	5.86	5.97	8.93
			36	5.88	5.94	8.92
	5 570	26	0	7.01	7.46	10.25
			18	5.40	6.08	8.76
			36	5.43	5.62	8.54
802.11ax (HE160)	5 250	2x996	68	-6.89	-6.98	-3.92
	5 570	2x996	68	-5.35	-7.15	-3.15
802.11ax (HE160)	5 250	SU	NA	-2.46	-4.81	-0.47
	5 570	SU	NA	-3.09	-4.76	-0.83

Mode	Frequency [MHz]	Tone	RU Index	Reading (dBm/500kHz)		Power Spectral Density (dBm/500kHz)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)
802.11ax (HE20)	5 745	26	0	9.06	7.03	11.17
			4	6.48	6.26	9.38
			8	8.63	6.70	10.78
	5 785	26	0	9.04	7.49	11.35
			4	8.20	6.72	10.53
			8	7.15	7.20	10.19
	5 825	26	0	9.83	7.61	11.87
			4	9.08	6.76	11.09
			8	9.77	7.35	11.74
	5 745	242	61	1.17	-1.02	3.22
	5 785	242	61	1.23	-0.60	3.42
	5 825	242	61	1.98	-0.49	3.93
	5 745	SU	NA	1.45	-1.13	3.36
802.11ax (HE40)	5 755	26	0	9.63	7.54	11.72
			8	8.82	7.07	11.04
			17	6.88	6.86	9.88
	5 795	26	0	9.30	7.68	11.57
			8	8.91	7.18	11.14
			17	9.04	7.05	11.17
	5 755	484	65	-0.59	-2.51	1.57
	5 795	484	65	-2.18	-2.47	0.69
	5 755	SU	NA	-2.26	-2.72	0.53
802.11ax (HE80)	5 775	26	0	10.00	7.84	12.06
			18	7.15	6.97	10.07
			36	8.83	6.68	10.90
		996	67	-3.30	-5.09	-1.09
		SU	NA	-3.16	-5.19	-1.05

- Power spectral density: CDD-Antenna 1

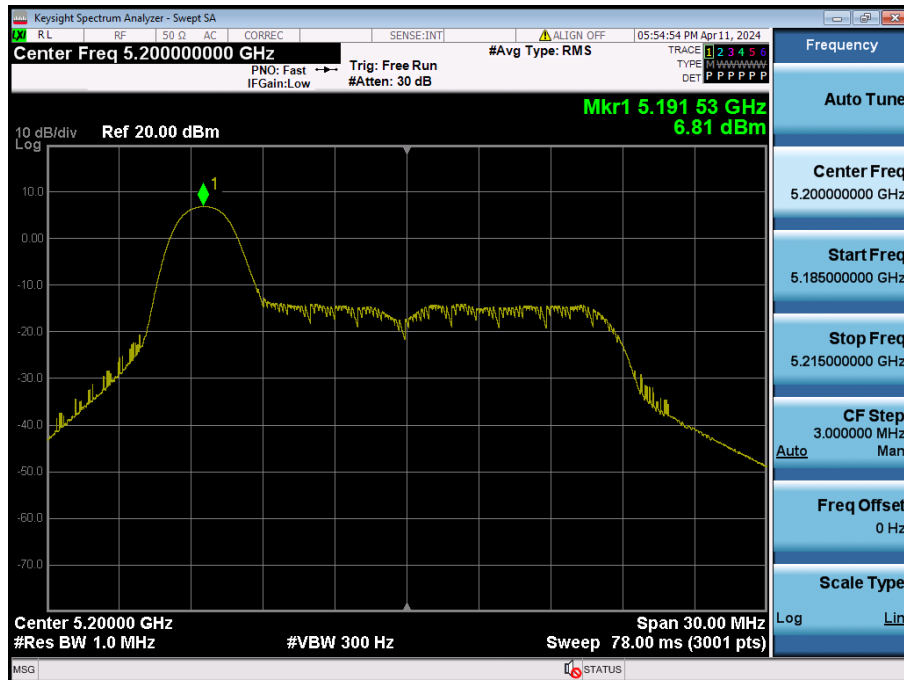
Maximum Power Spectral Density

Test Mode: 802.11ax HE20 & ANT 1 & 26 Tone & 0 RU & Ch.36



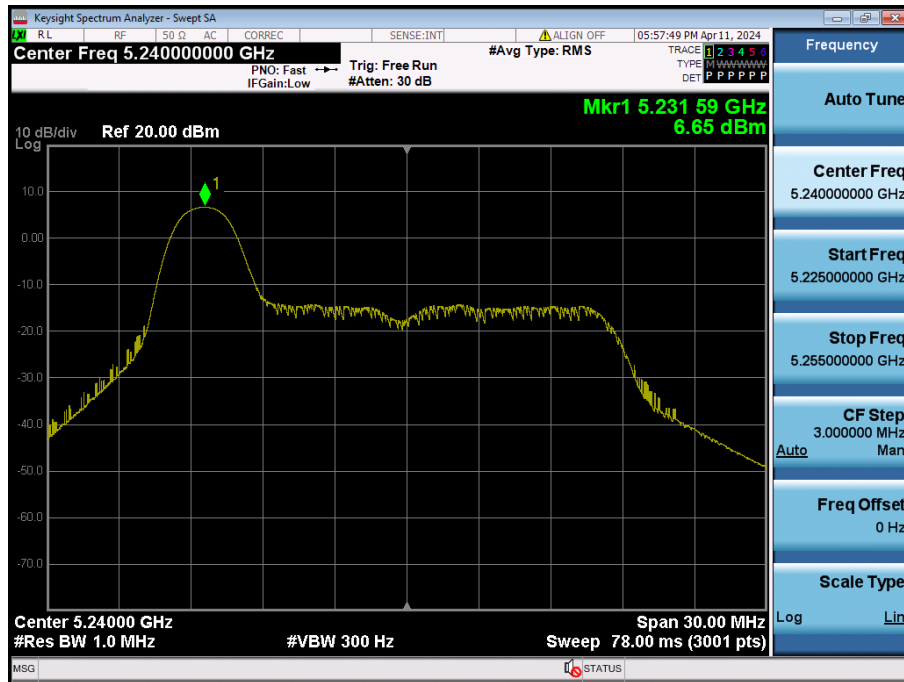
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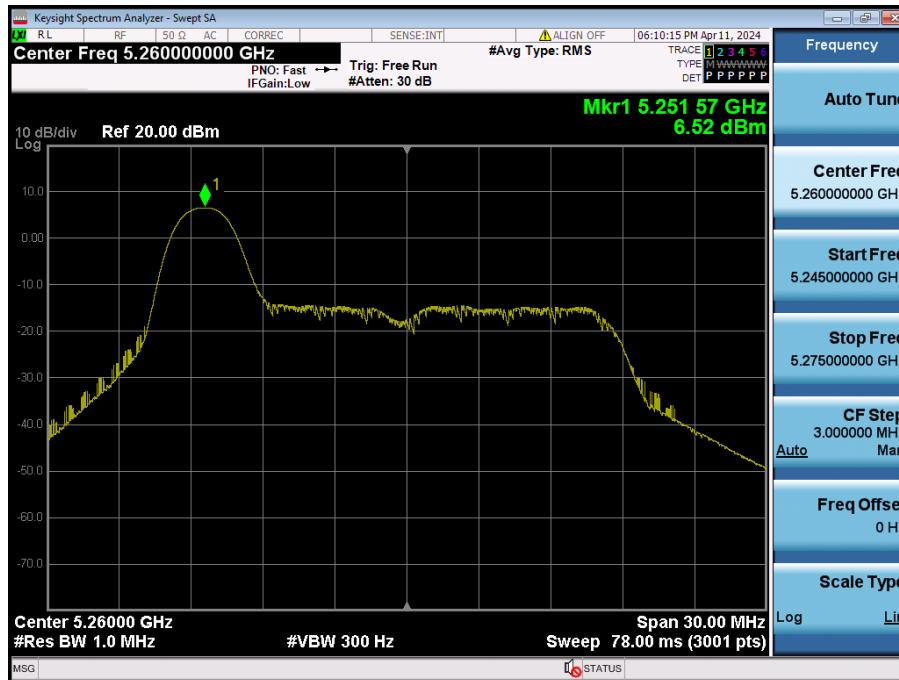
Maximum Power Spectral Density

Test Mode: 802.11ax HE20 & ANT 1 & 26 Tone & 0 RU & Ch.48



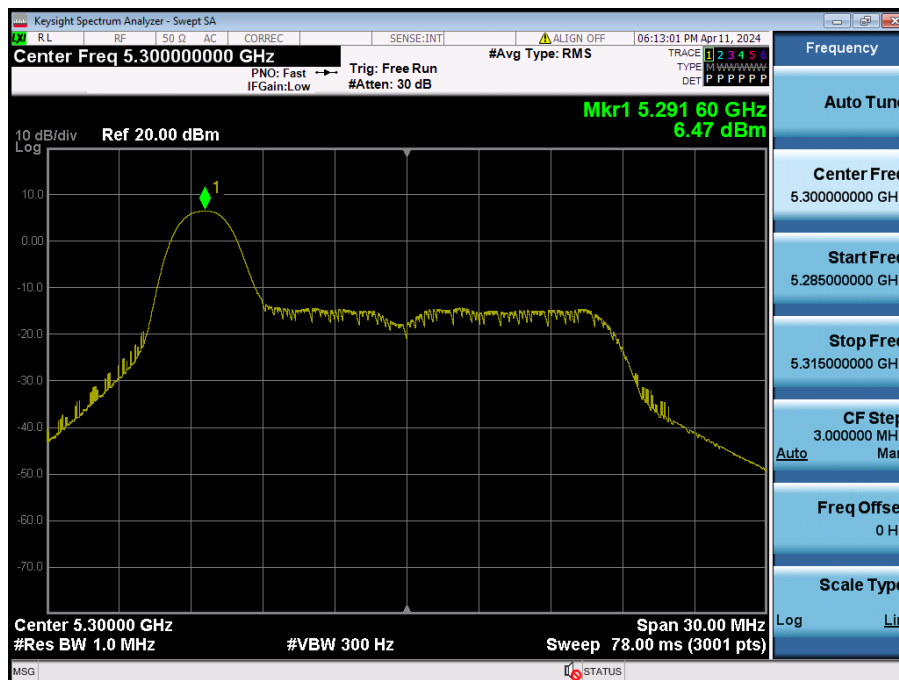
Maximum Power Spectral Density

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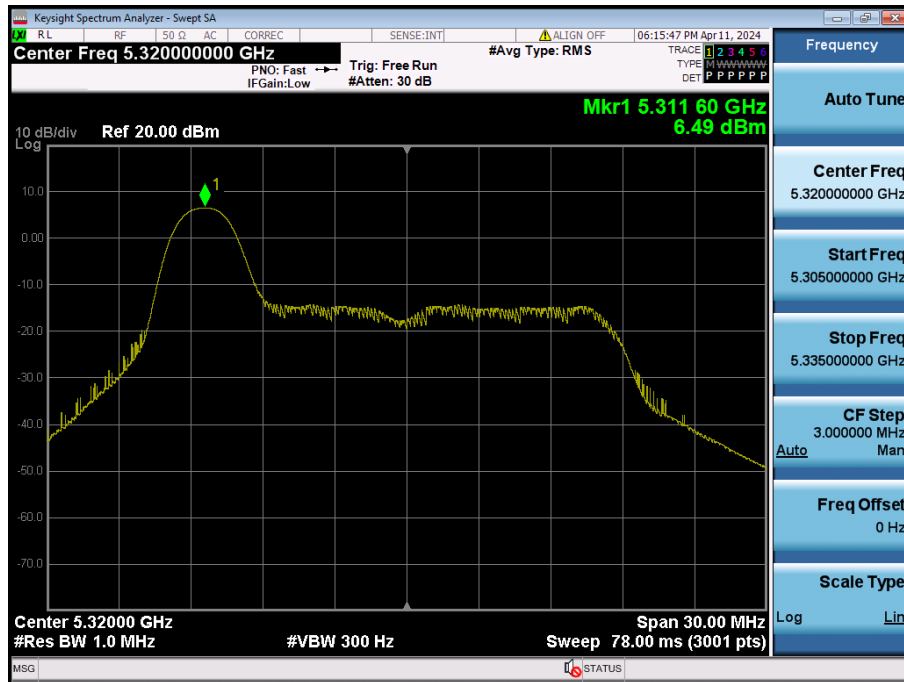
Maximum Power Spectral Density

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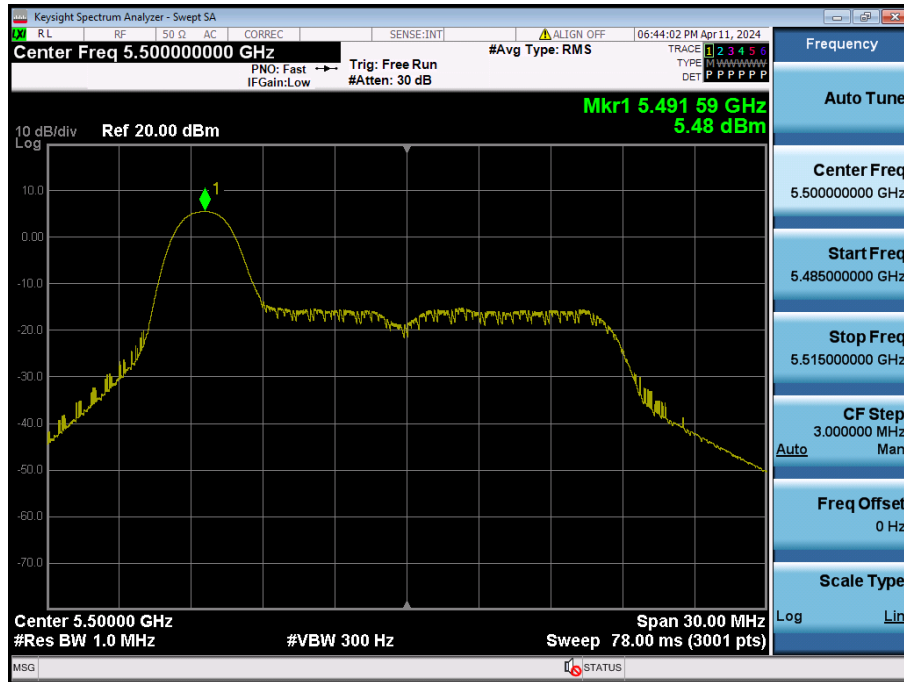
Maximum Power Spectral Density

Test Mode: 802.11ax HE20 & ANT 1 & 26 Tone & 0 RU & Ch.64



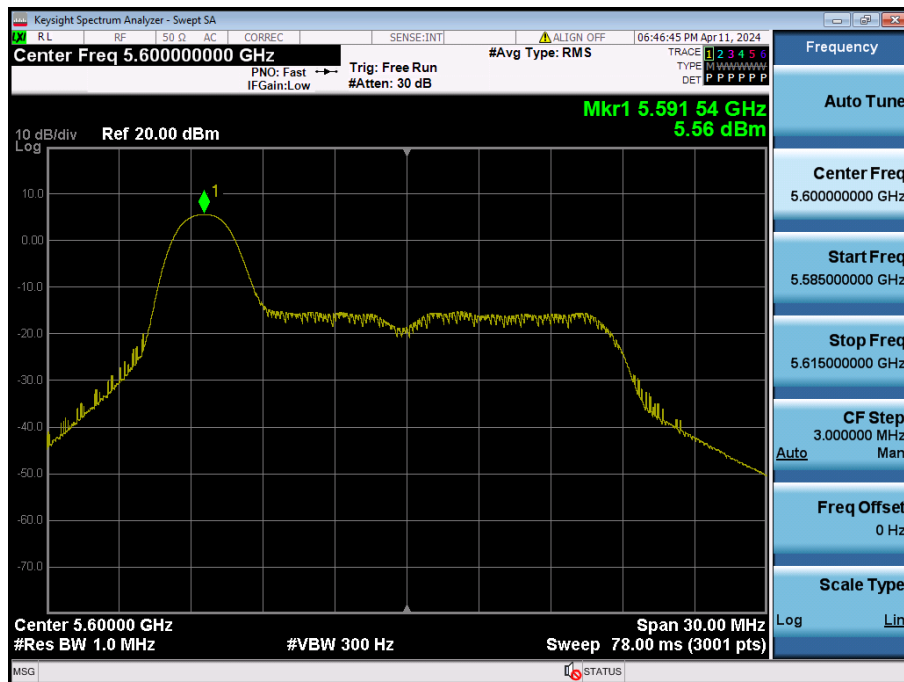
Maximum Power Spectral Density

Test Mode: 802.11ax HE20 & ANT 1 & 26 Tone & 0 RU & Ch.100



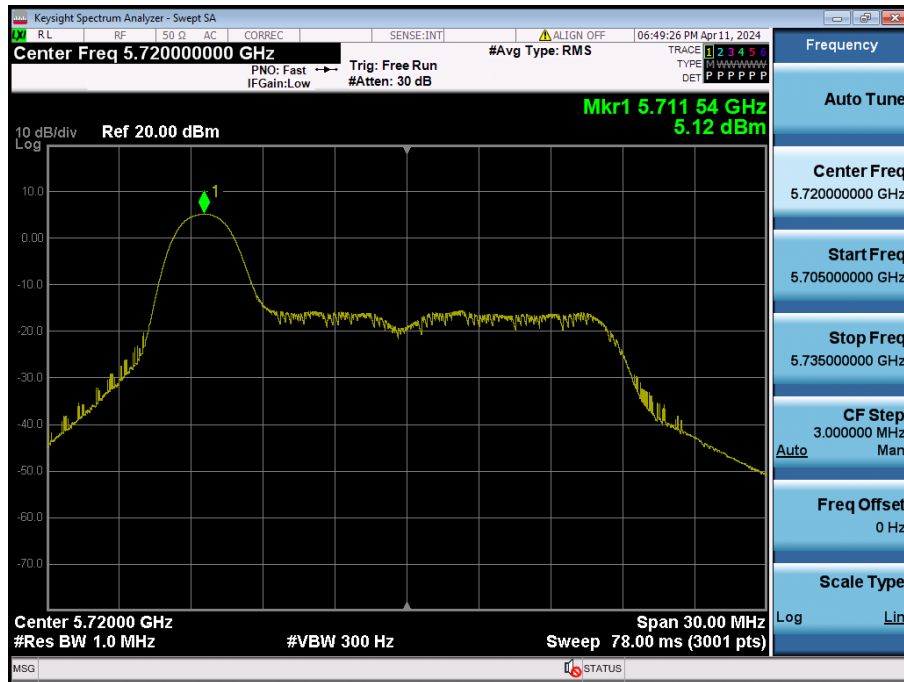
Maximum Power Spectral Density

Test Mode: 802.11ax HE20 & ANT 1 & 26 Tone & 0 RU & Ch.120

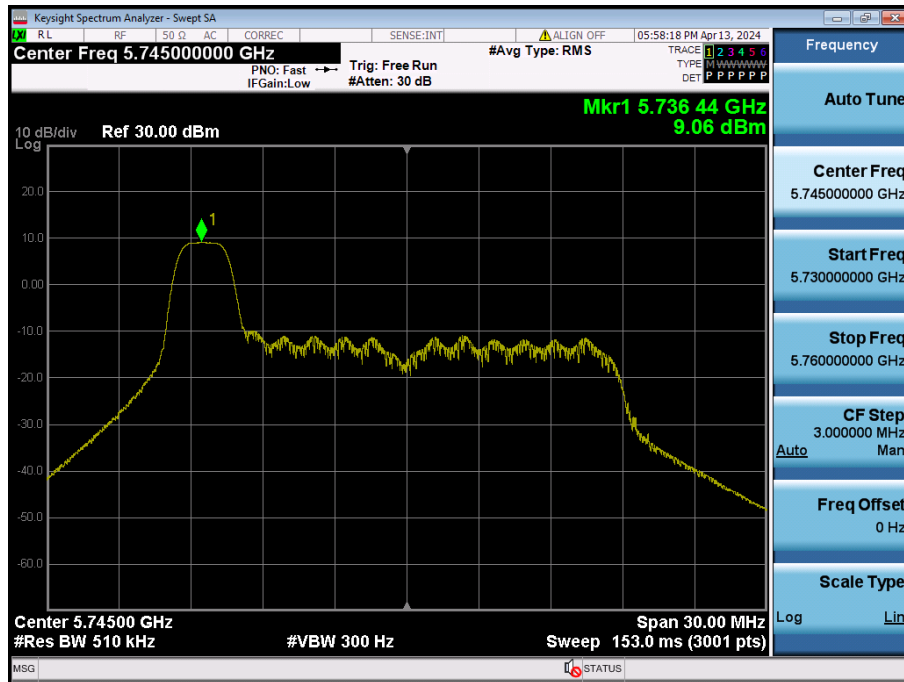


Maximum Power Spectral Density

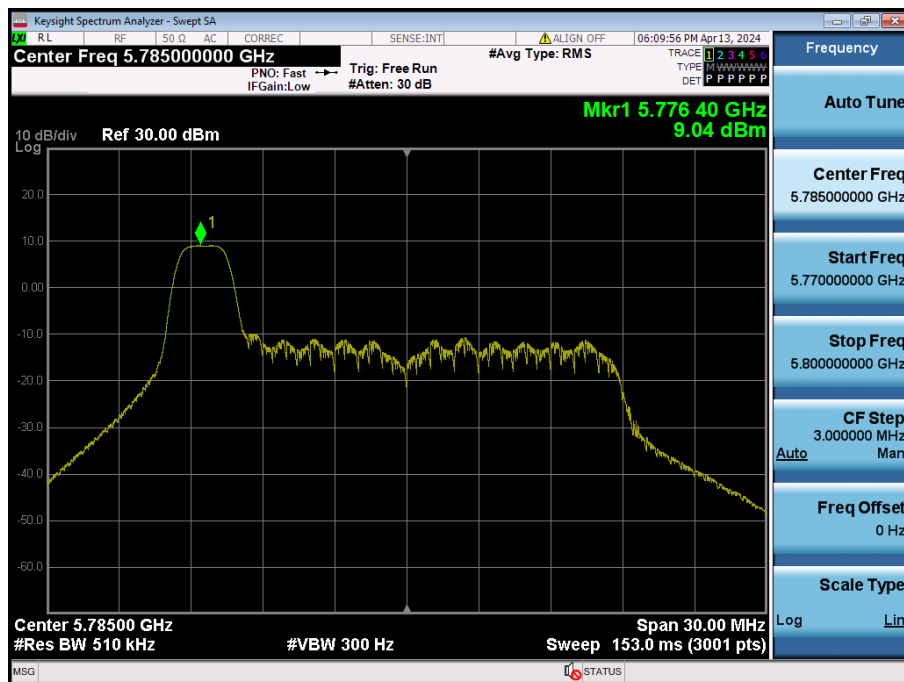
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Maximum Power Spectral Density Test Mode: 802.11ax HE20 & ANT 1 & 26 Tone & 0 RU & Ch.149

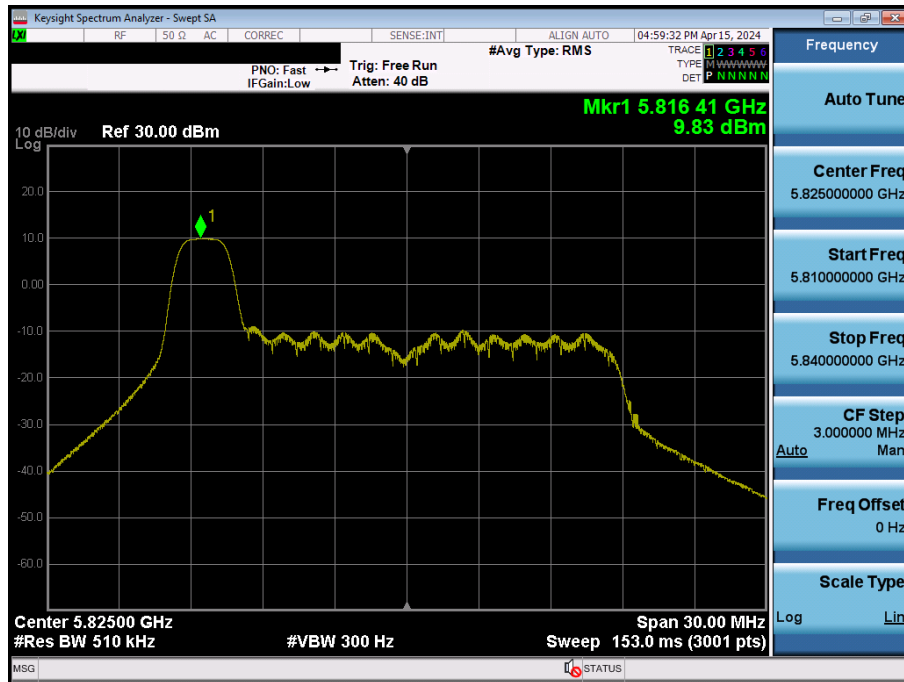


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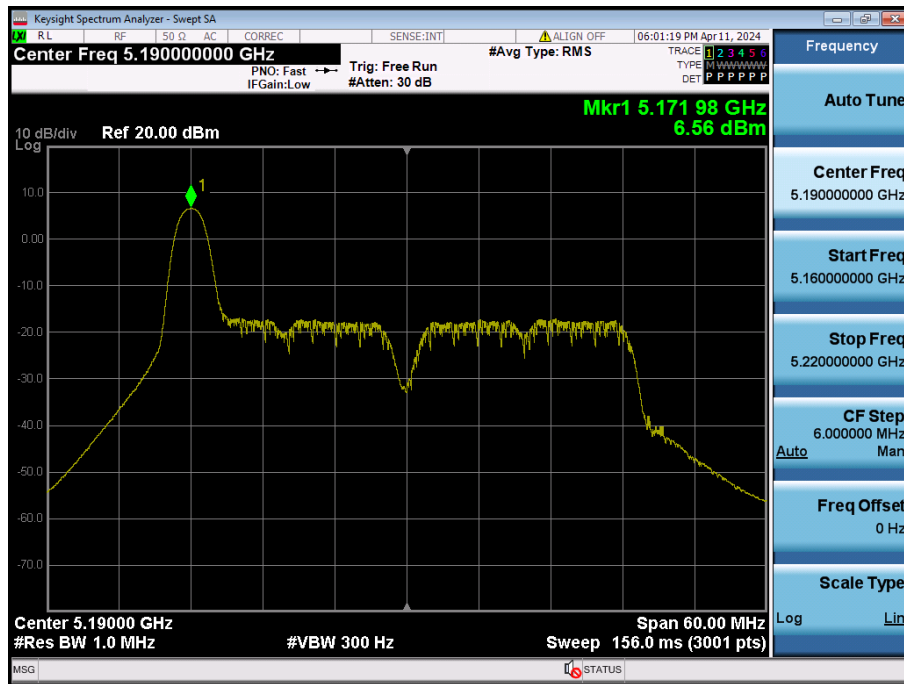
Maximum Power Spectral Density

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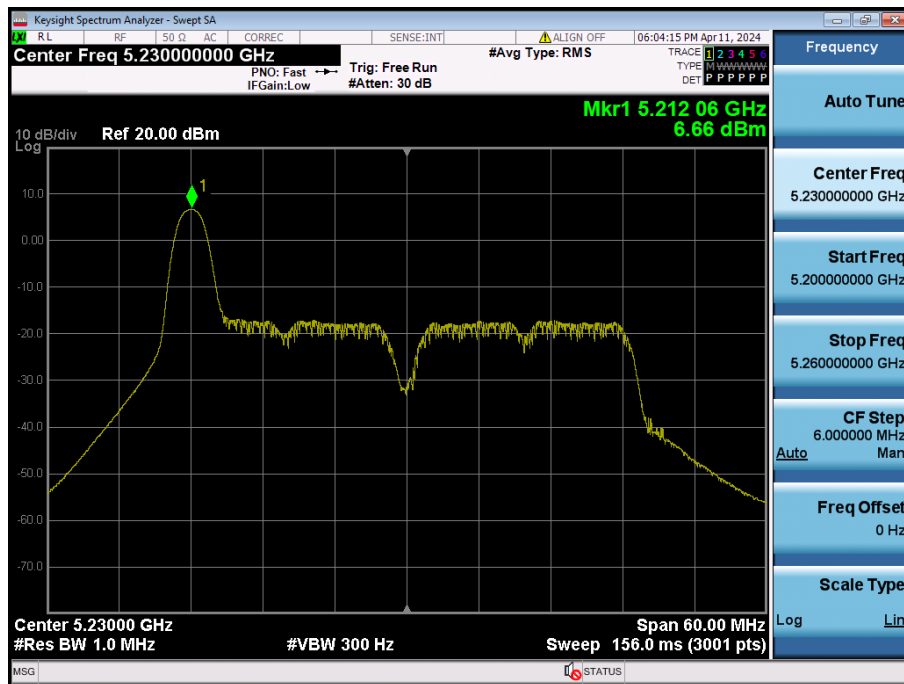
Maximum Power Spectral Density

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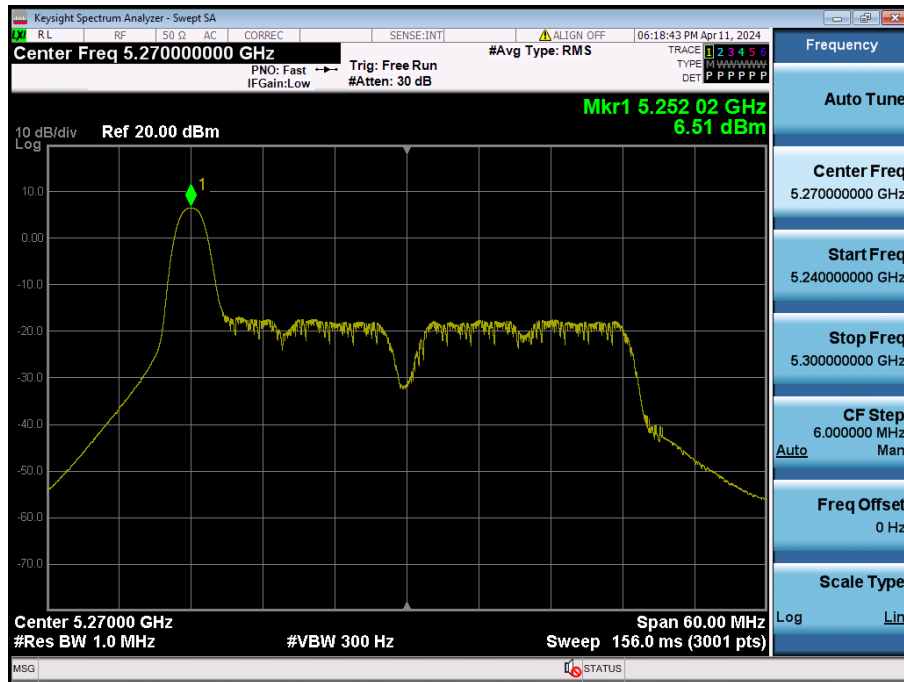
Maximum Power Spectral Density

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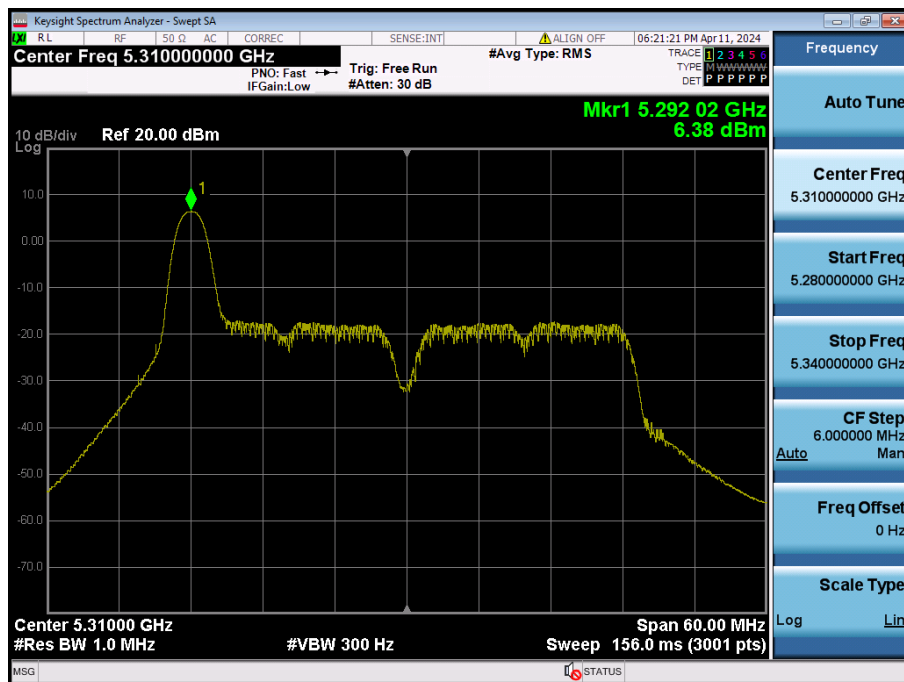
Maximum Power Spectral Density

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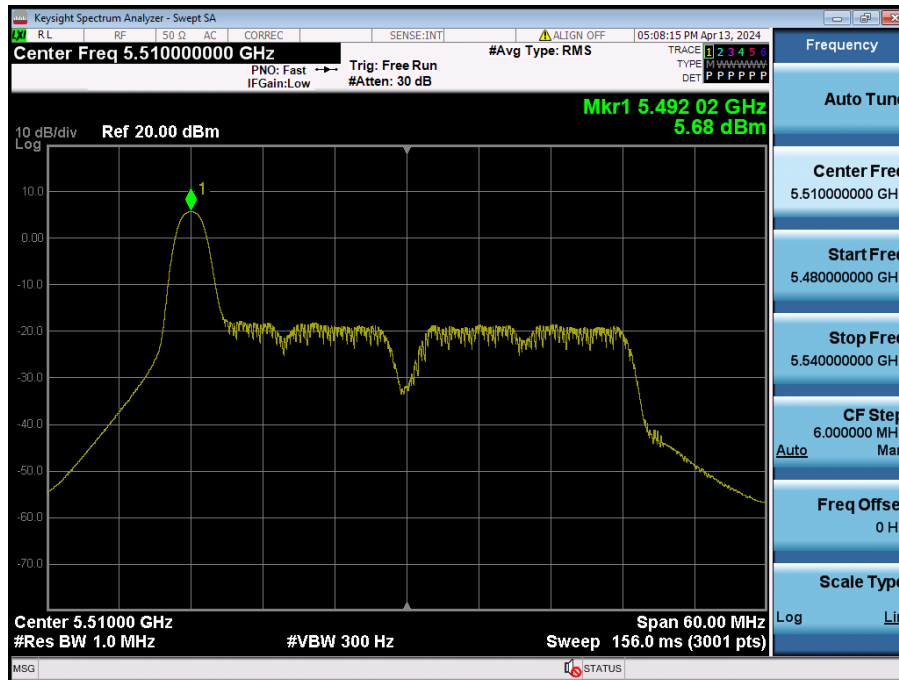
Maximum Power Spectral Density

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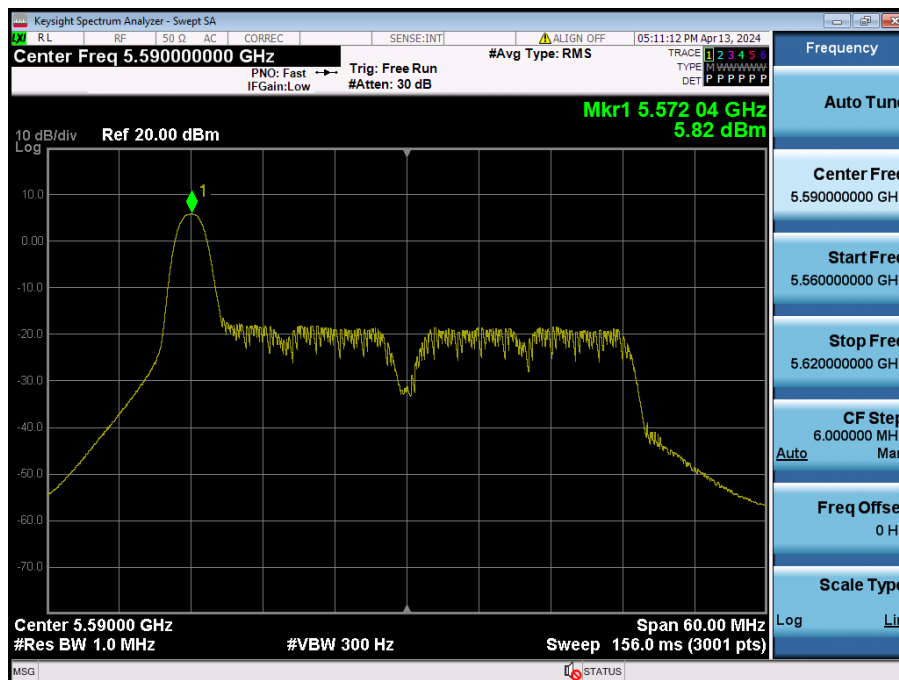
Maximum Power Spectral Density

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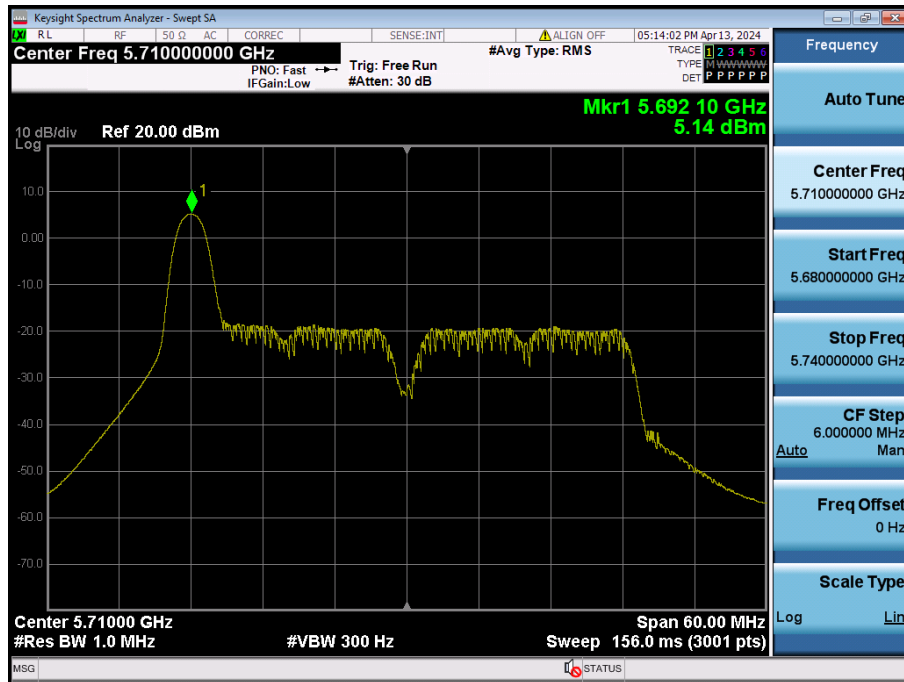
Maximum Power Spectral Density

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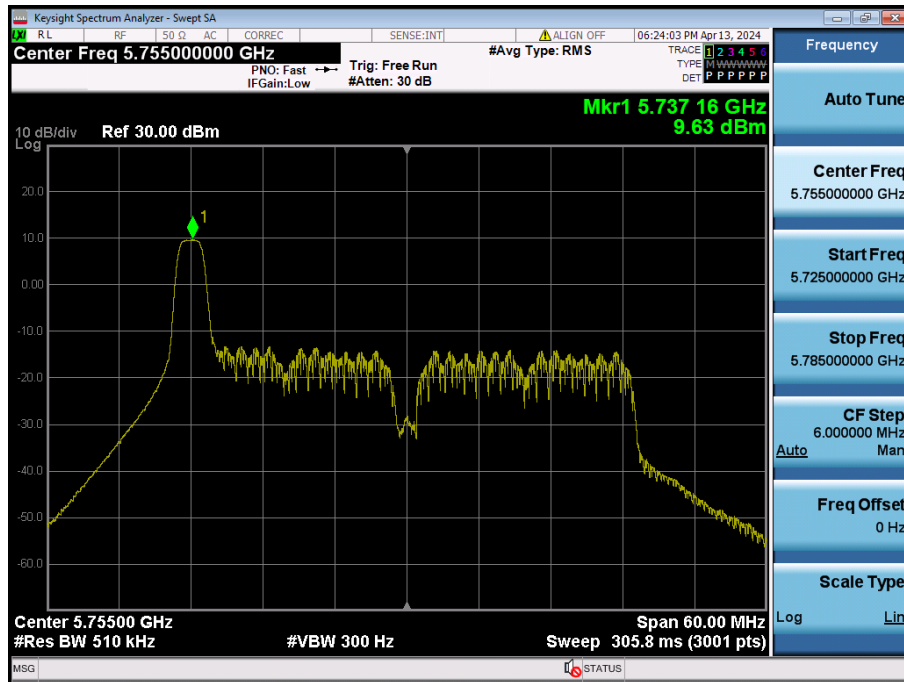
Maximum Power Spectral Density

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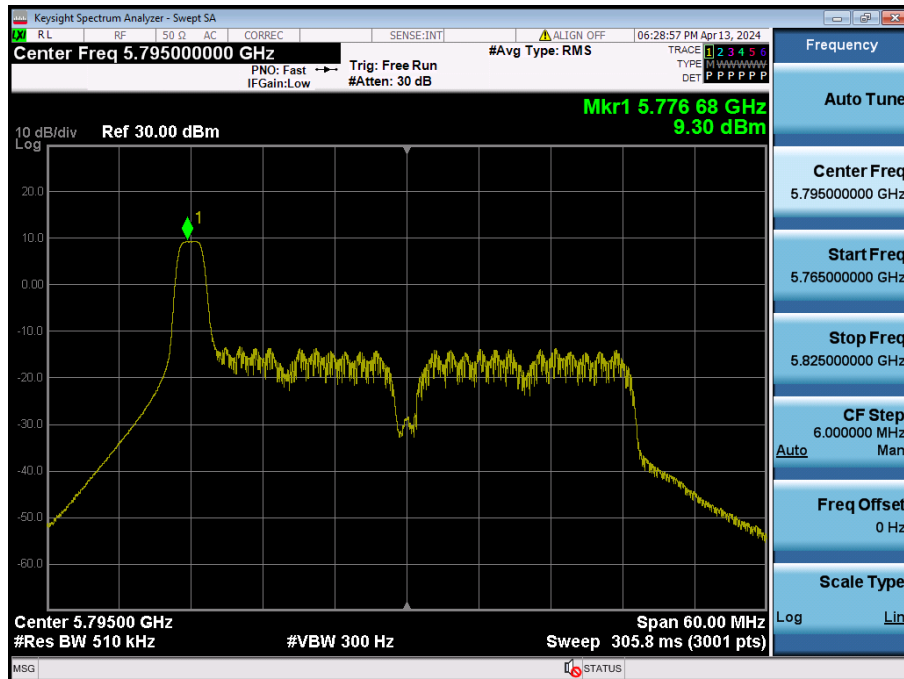
Maximum Power Spectral Density

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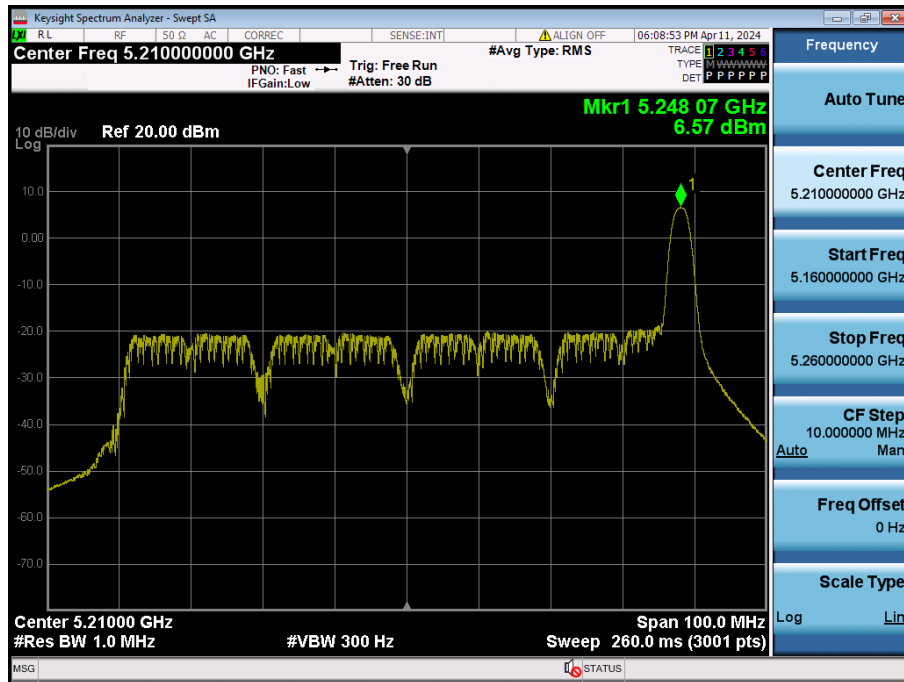
Maximum Power Spectral Density

Test Mode: 802.11ax HE40 & ANT 1 & 26 Tone & 0 RU & Ch.159



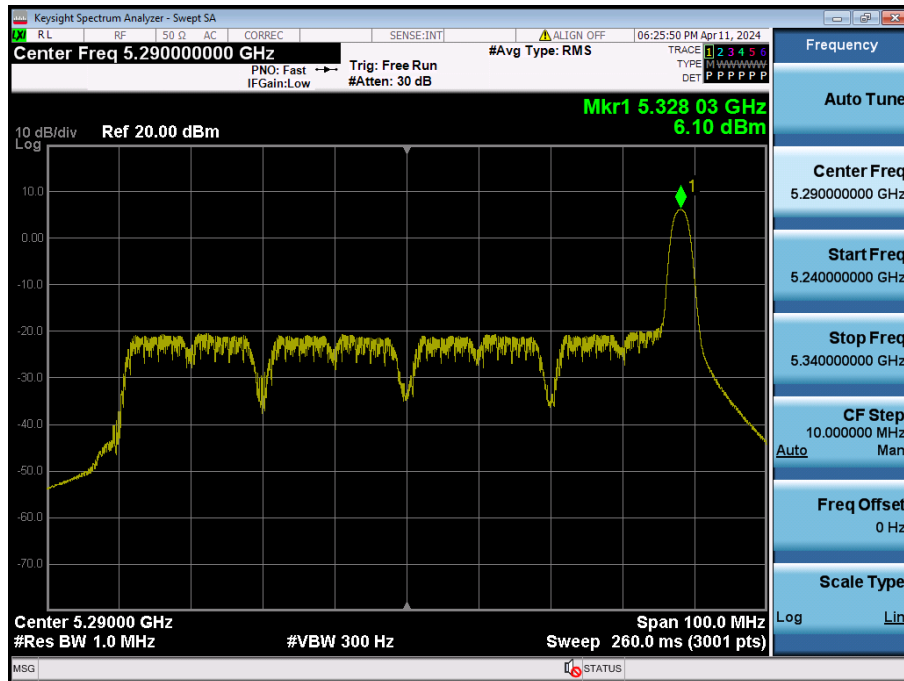
Maximum Power Spectral Density

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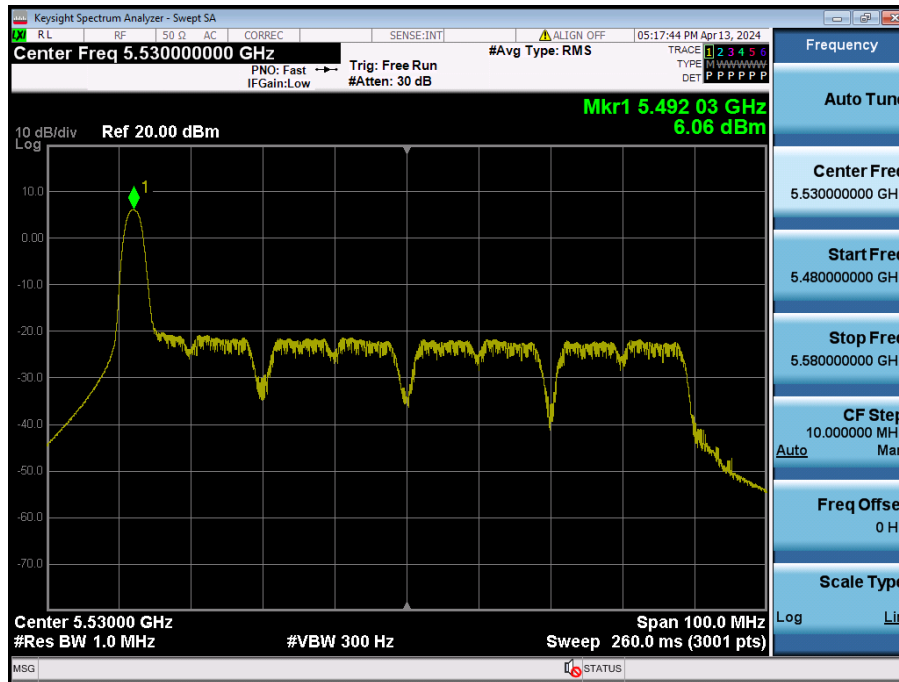


Maximum Power Spectral Density

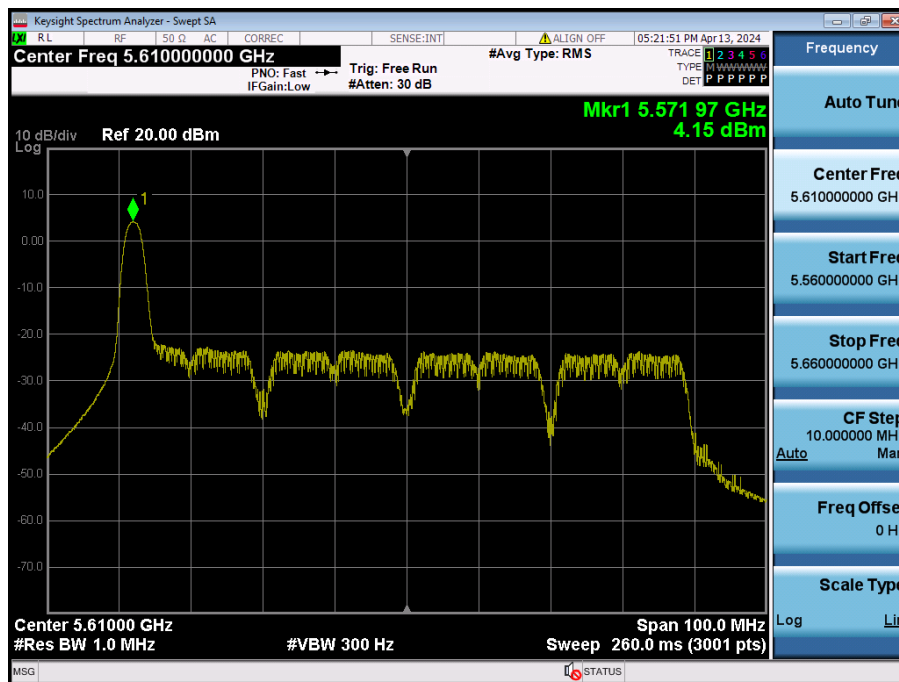
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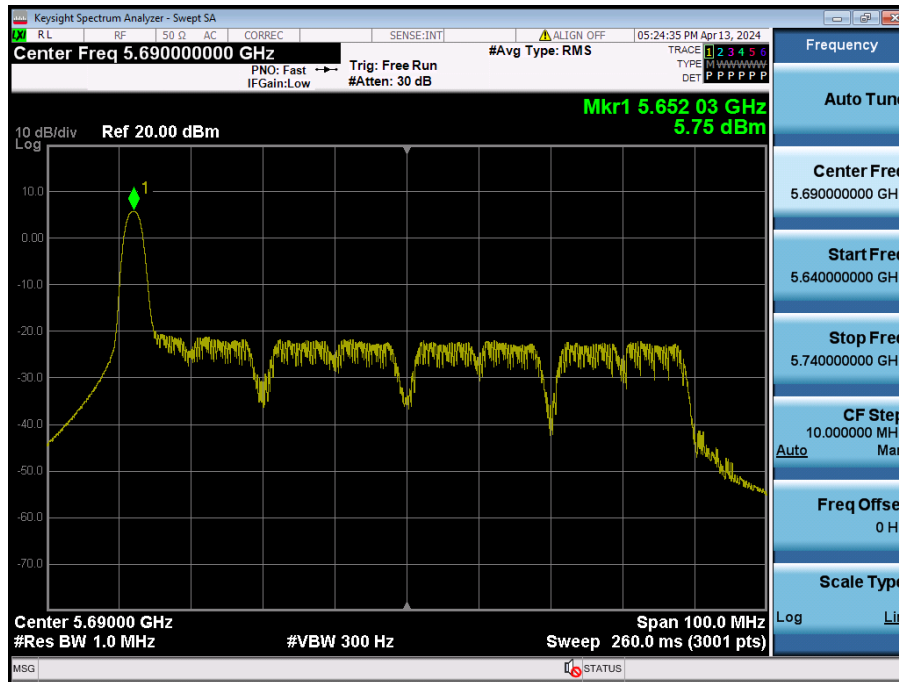
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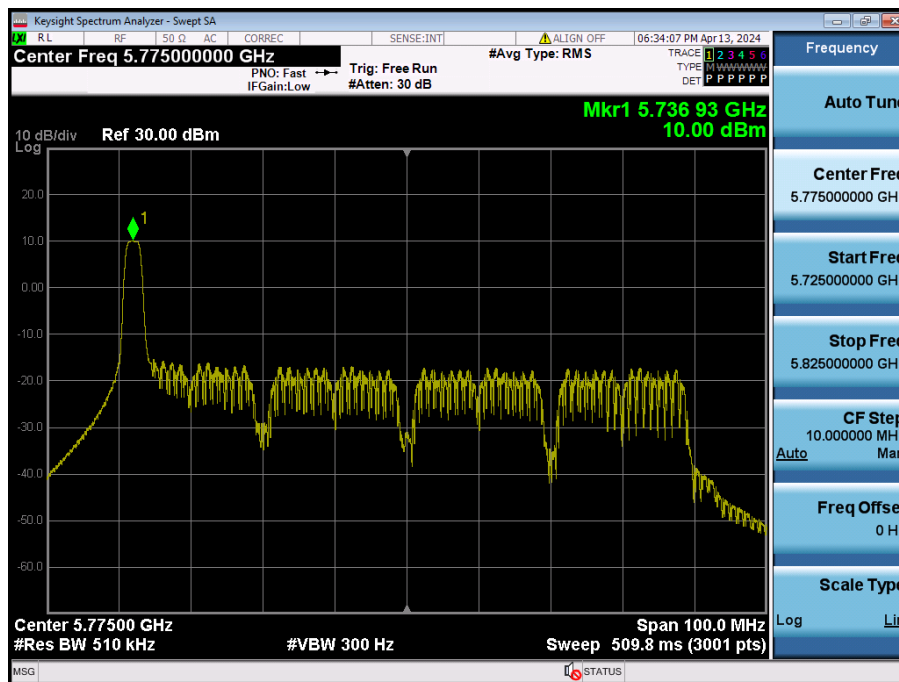
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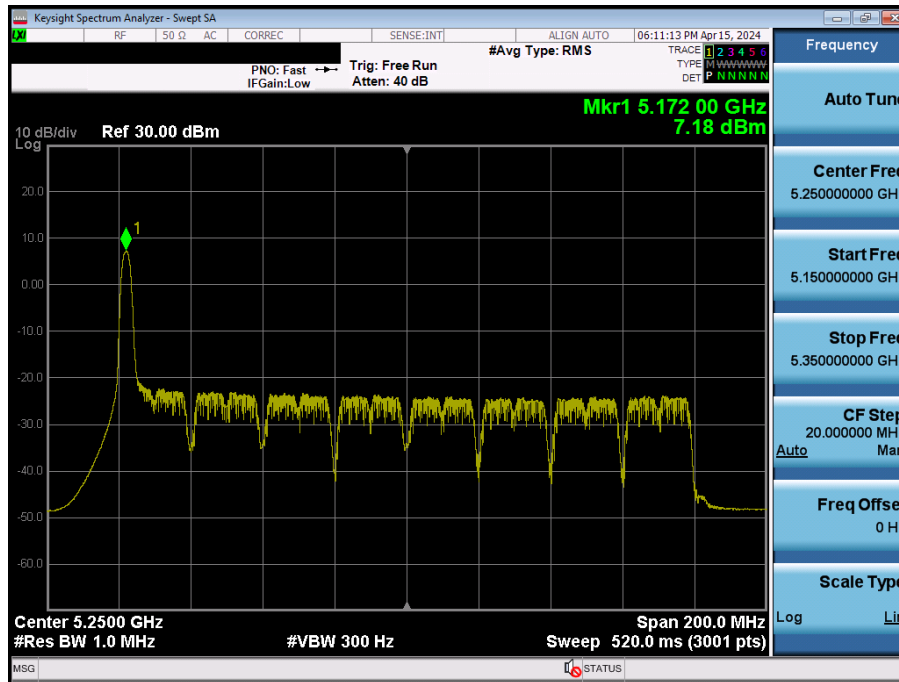
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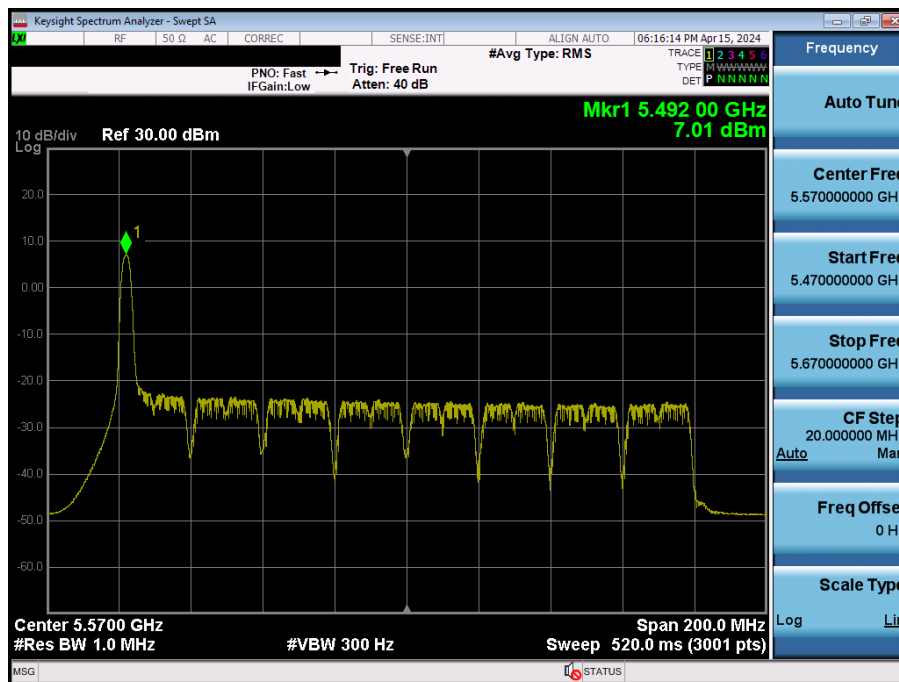
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Maximum Power Spectral Density Test Mode: 802.11ax HE160 & ANT 1 & 26 Tone & 0L RU & Ch.50



Maximum Power Spectral Density Test Mode: 802.11ax HE160 & ANT 1 & 26 Tone & 0L RU & Ch.114



- Power spectral density: CDD-Antenna 2

Maximum Power Spectral Density

Test Mode: 802.11ax HE20 & ANT 2 & 26 Tone & 0 RU & Ch.36



Maximum Power Spectral Density

Test Mode: 802.11ax HE20 & ANT 2 & 26 Tone & 0 RU & Ch.40



Maximum Power Spectral Density

Test Mode: 802.11ax HE20 & ANT 2 & 26 Tone & 0 RU & Ch.48



Maximum Power Spectral Density

Test Mode: 802.11ax HE20 & ANT 2 & 26 Tone & 0 RU & Ch.52



Maximum Power Spectral Density

Test Mode: 802.11ax HE20 & ANT 2 & 26 Tone & 0 RU & Ch.60



Maximum Power Spectral Density

Test Mode: 802.11ax HE20 & ANT 2 & 26 Tone & 0 RU & Ch.64



Maximum Power Spectral Density

Test Mode: 802.11ax HE20 & ANT 2 & 26 Tone & 0 RU & Ch.100



Maximum Power Spectral Density

Test Mode: 802.11ax HE20 & ANT 2 & 26 Tone & 0 RU & Ch.120

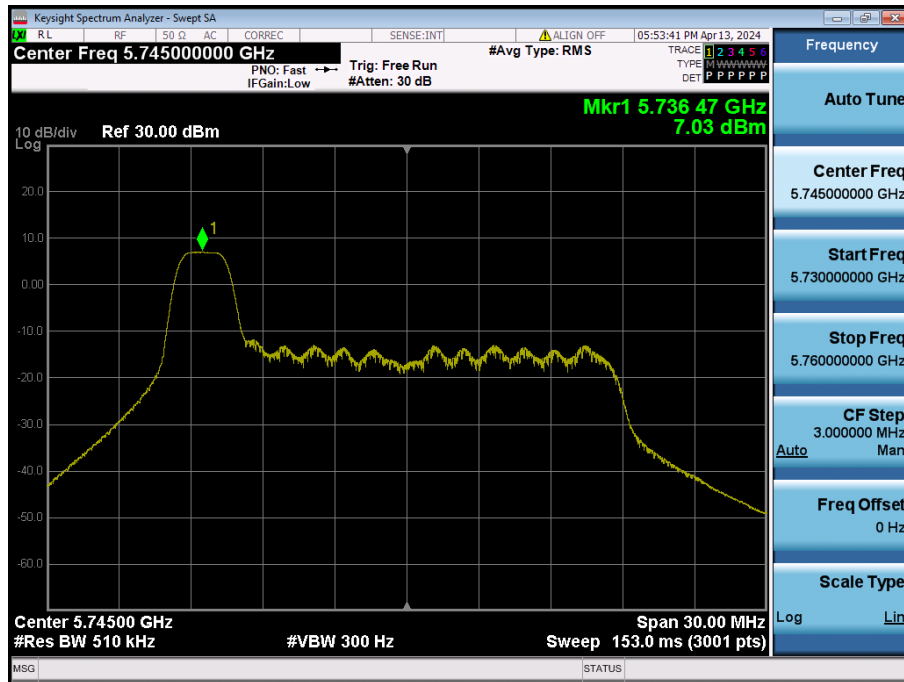


Maximum Power Spectral Density

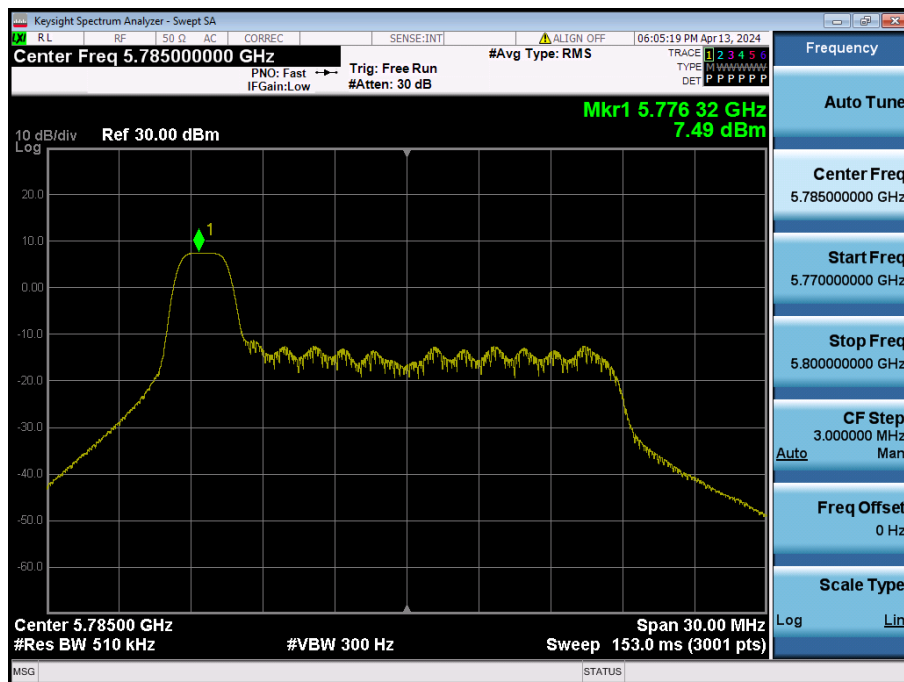
Test Mode: 802.11ax HE20 & ANT 2 & 26 Tone & 0 RU & Ch.144



Maximum Power Spectral Density Test Mode: 802.11ax HE20 & ANT 2 & 26 Tone & 0 RU & Ch.149

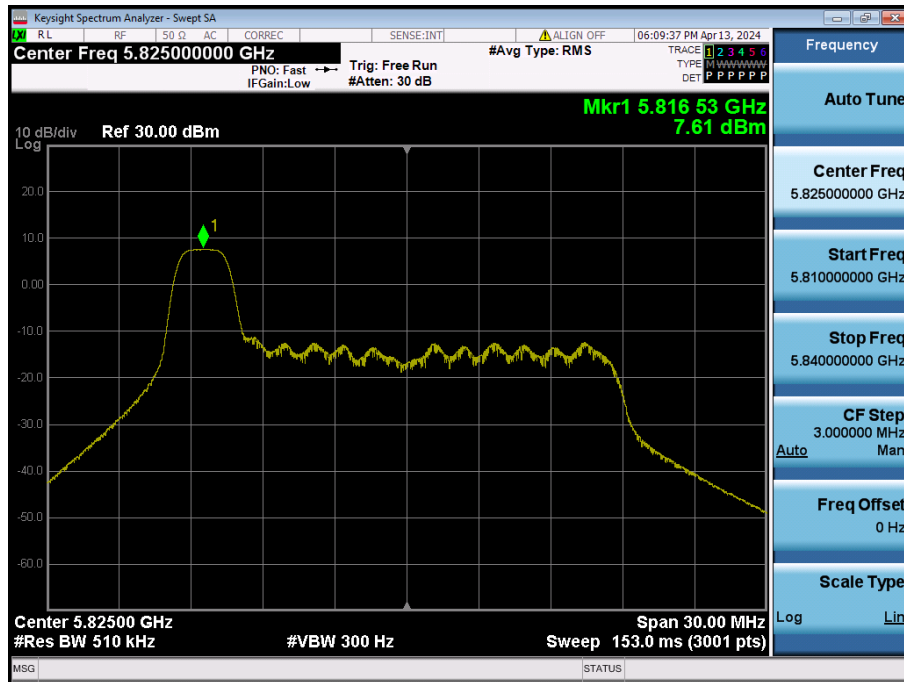


Maximum Power Spectral Density Test Mode: 802.11ax HE20 & ANT 2 & 26 Tone & 0 RU & Ch.157



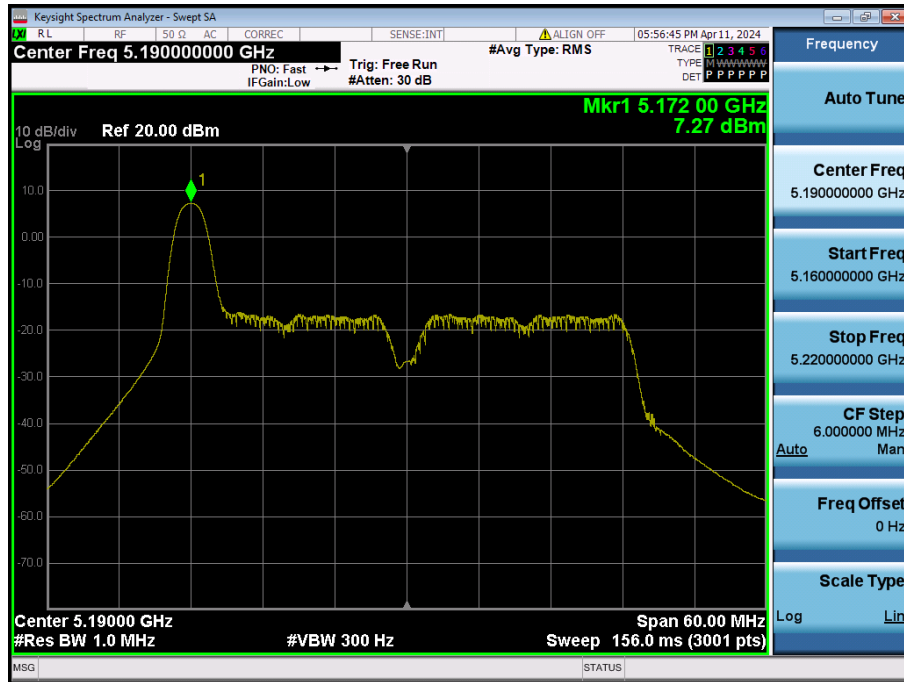
Maximum Power Spectral Density

Test Mode: 802.11ax HE20 & ANT 2 & 26 Tone & 0 RU & Ch.165



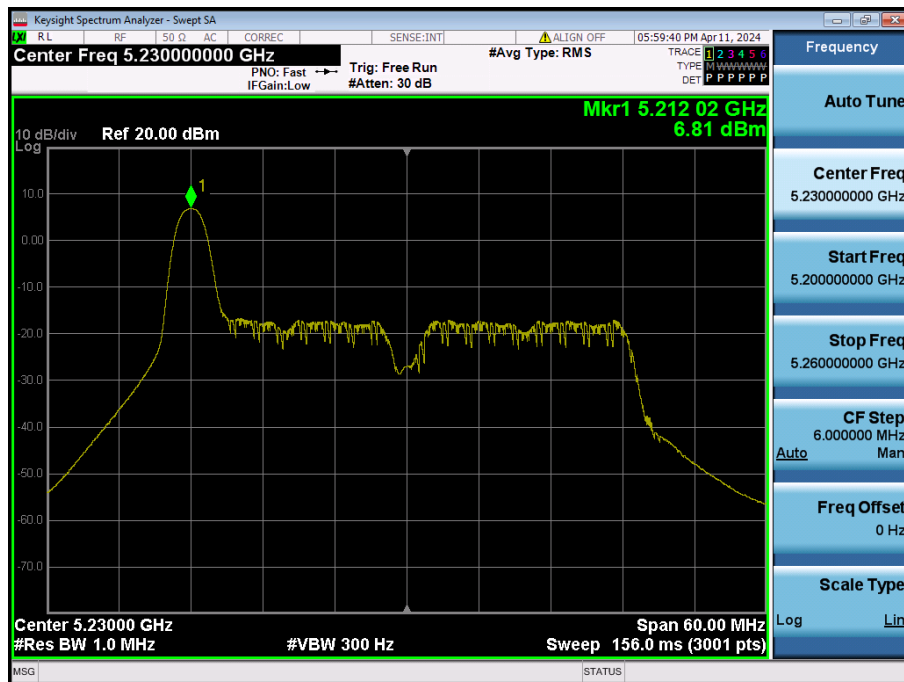
Maximum Power Spectral Density

Test Mode: 802.11ax HE40 & ANT 2 & 26 Tone & 0 RU & Ch.38



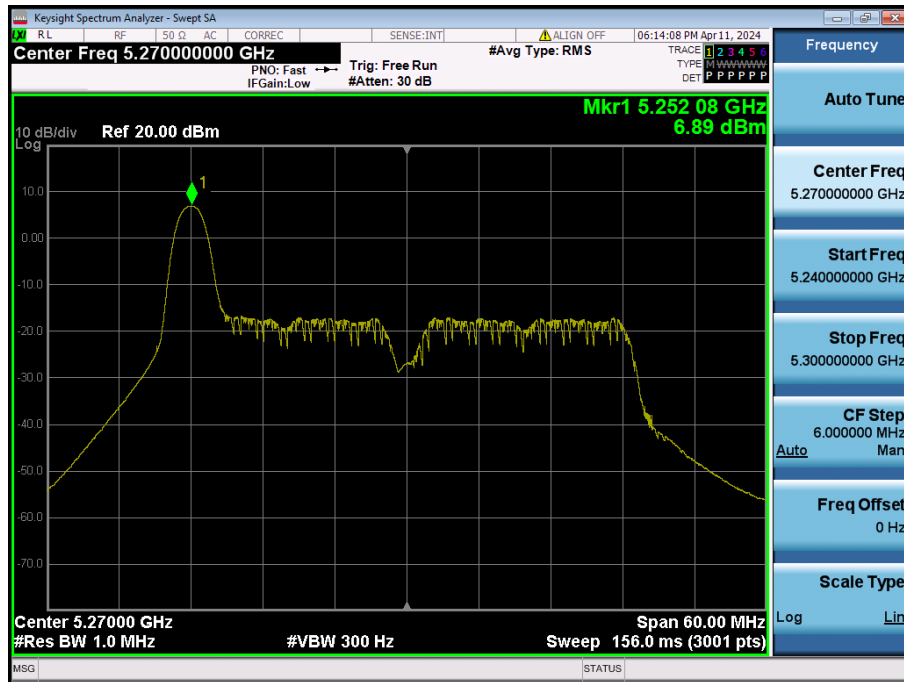
Maximum Power Spectral Density

Test Mode: 802.11ax HE40 & ANT 2 & 26 Tone & 0 RU & Ch.46



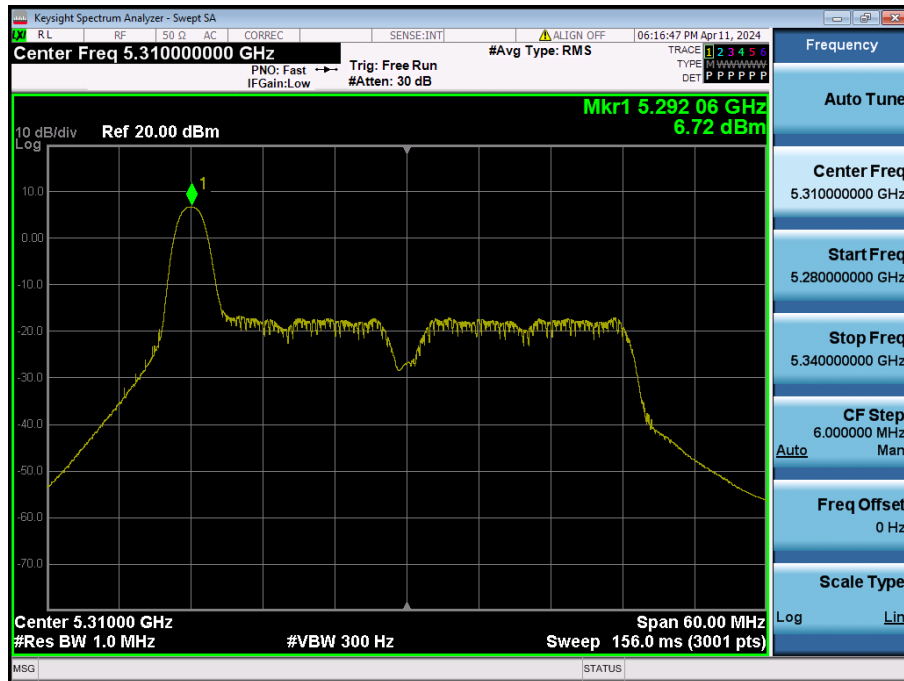
Maximum Power Spectral Density

Test Mode: 802.11ax HE40 & ANT 2 & 26 Tone & 0 RU & Ch.54



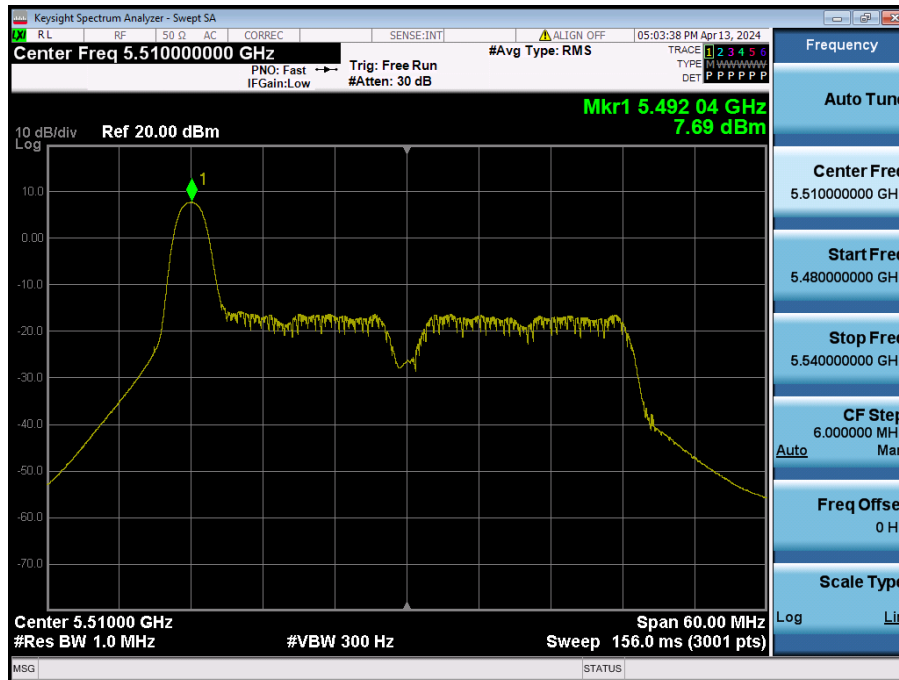
Maximum Power Spectral Density

Test Mode: 802.11ax HE40 & ANT 2 & 26 Tone & 0 RU & Ch.62



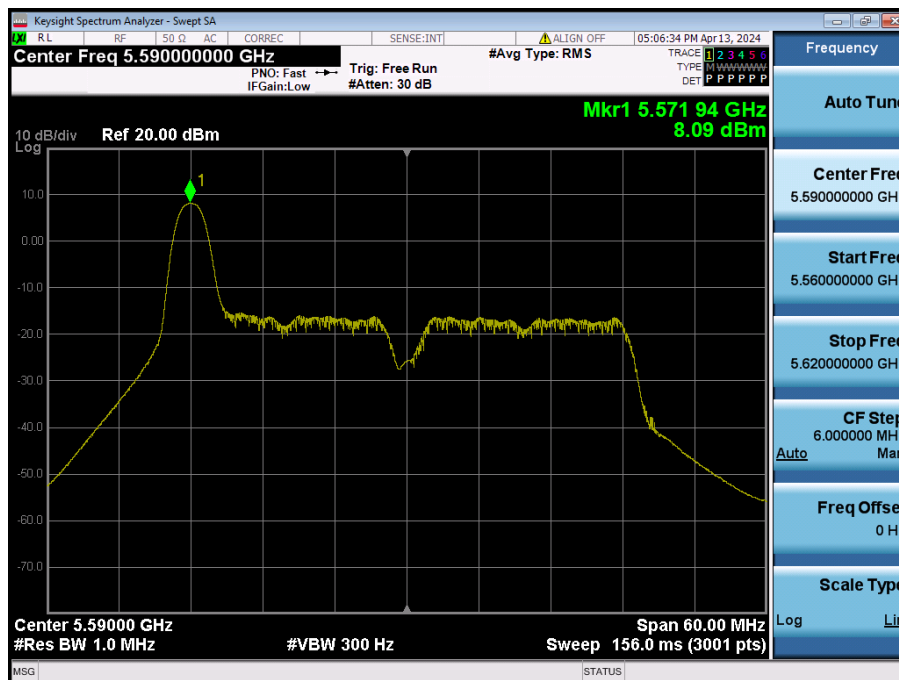
Maximum Power Spectral Density

Test Mode: 802.11ax HE40 & ANT 2 & 26 Tone & 0 RU & Ch.102



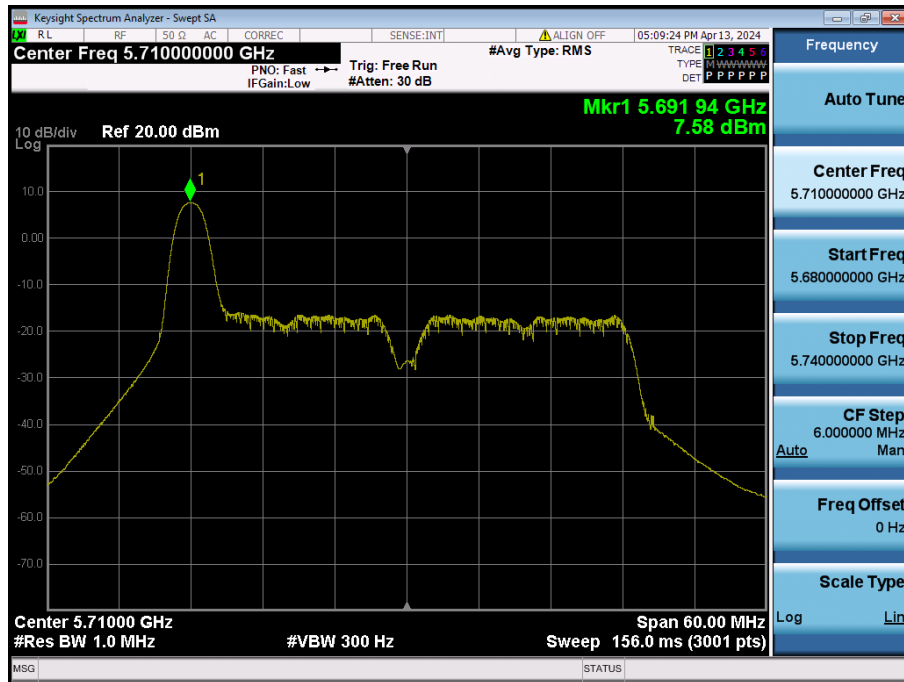
Maximum Power Spectral Density

Test Mode: 802.11ax HE40 & ANT 2 & 26 Tone & 0 RU & Ch.118



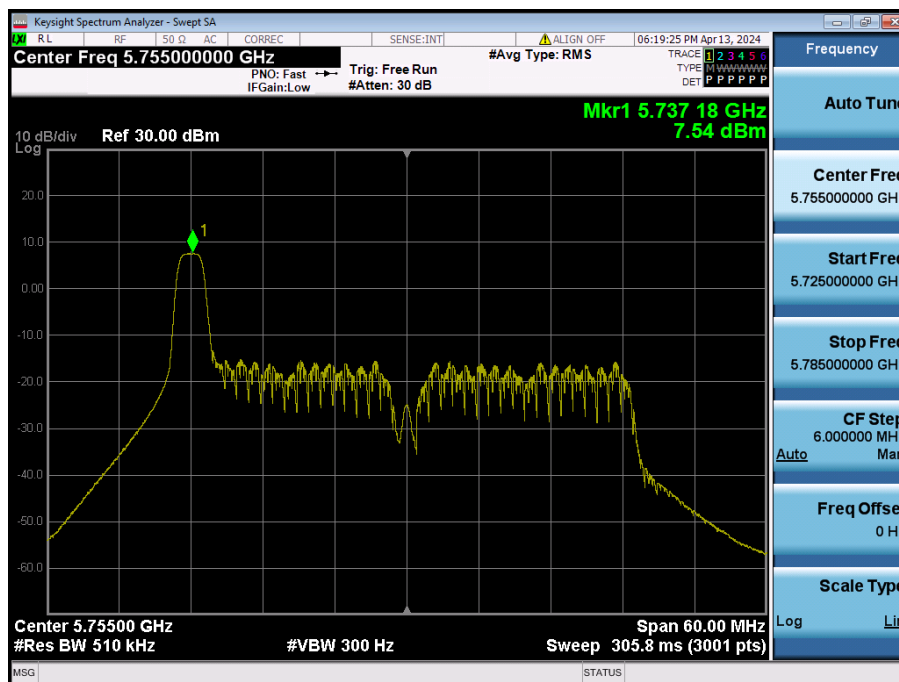
Maximum Power Spectral Density

Test Mode: 802.11ax HE40 & ANT 2 & 26 Tone & 0 RU & Ch.142



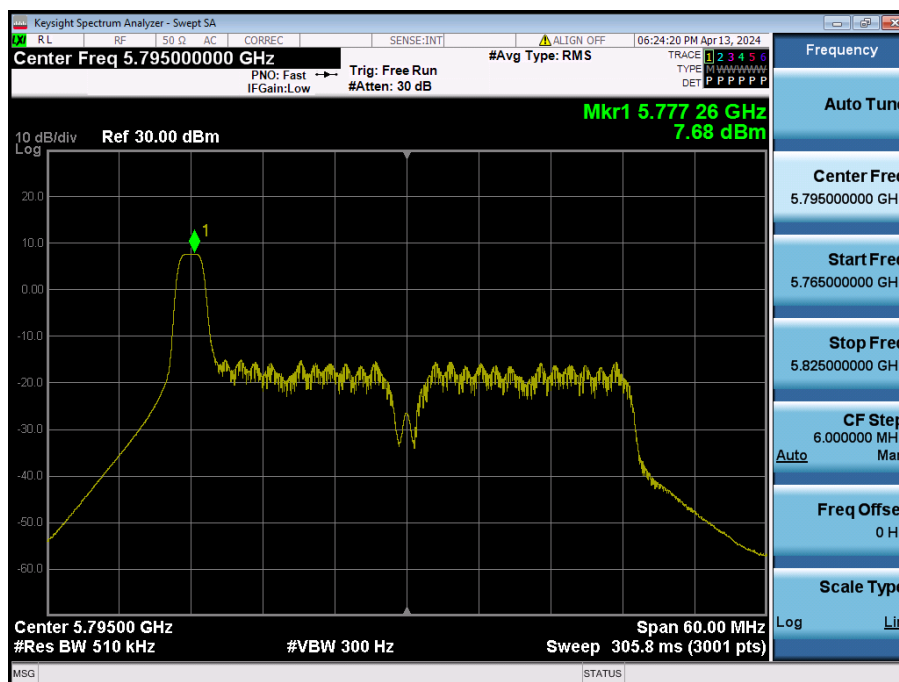
Maximum Power Spectral Density

Test Mode: 802.11ax HE40 & ANT 2 & 26 Tone & 0 RU & Ch.151



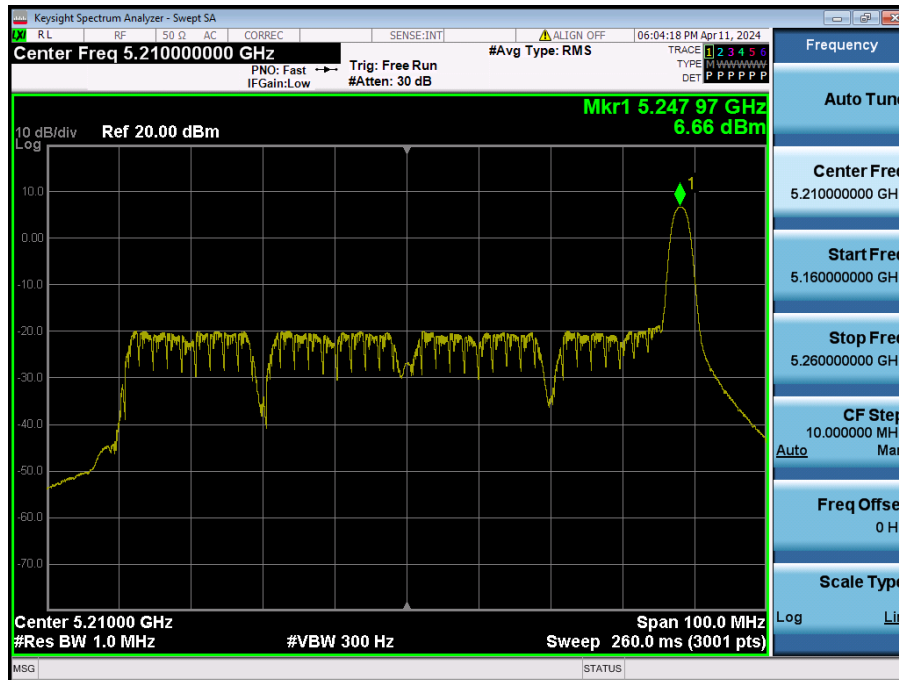
Maximum Power Spectral Density

Test Mode: 802.11ax HE40 & ANT 2 & 26 Tone & 0 RU & Ch.159



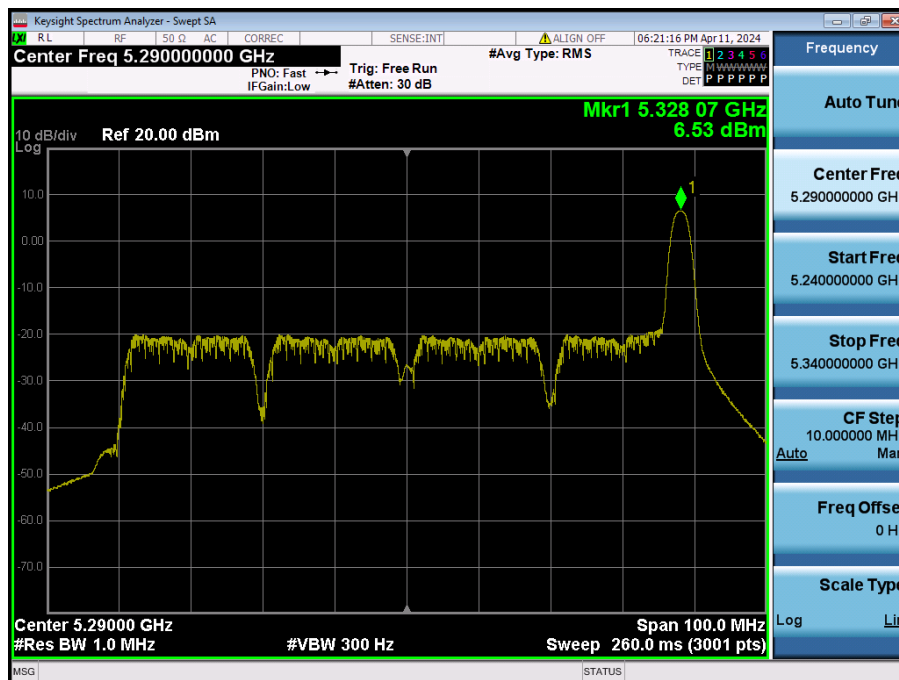
Maximum Power Spectral Density

Test Mode: 802.11ax HE80 & ANT 2 & 26 Tone & 36 RU & Ch.42

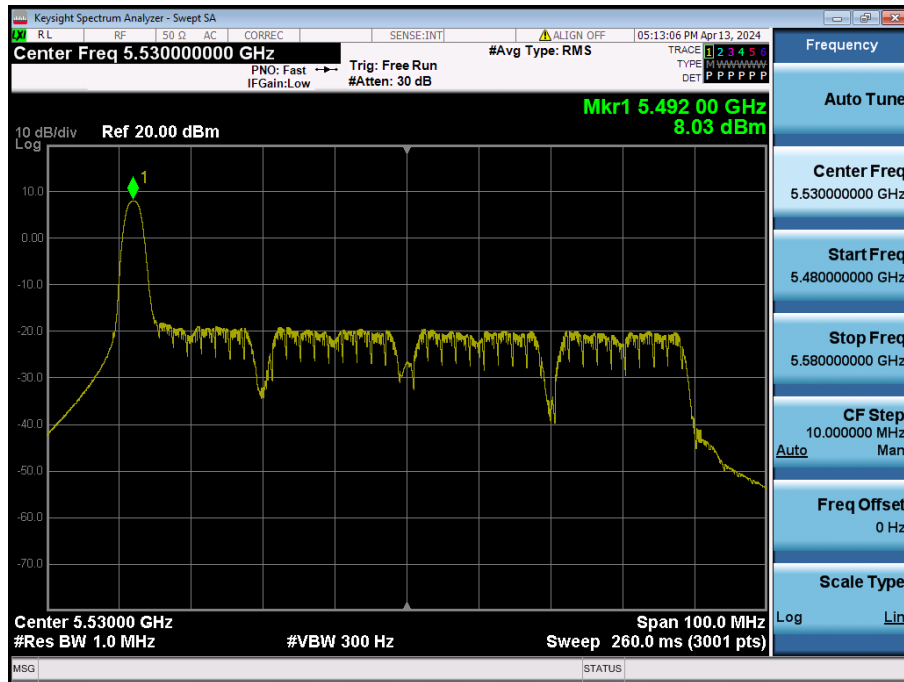


Maximum Power Spectral Density

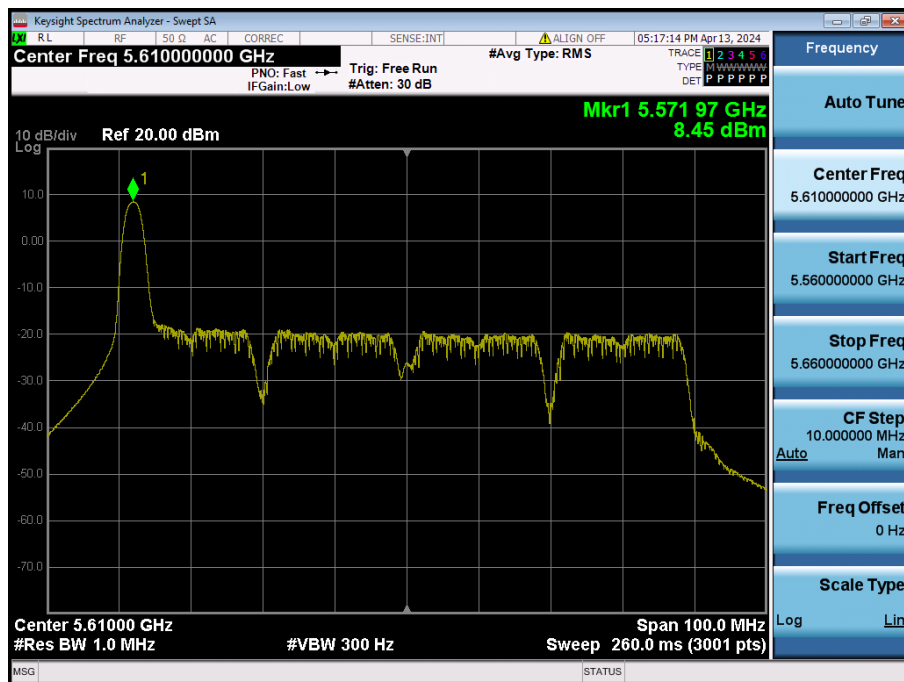
Test Mode: 802.11ax HE80 & ANT 2 & 26 Tone & 36 RU & Ch.58



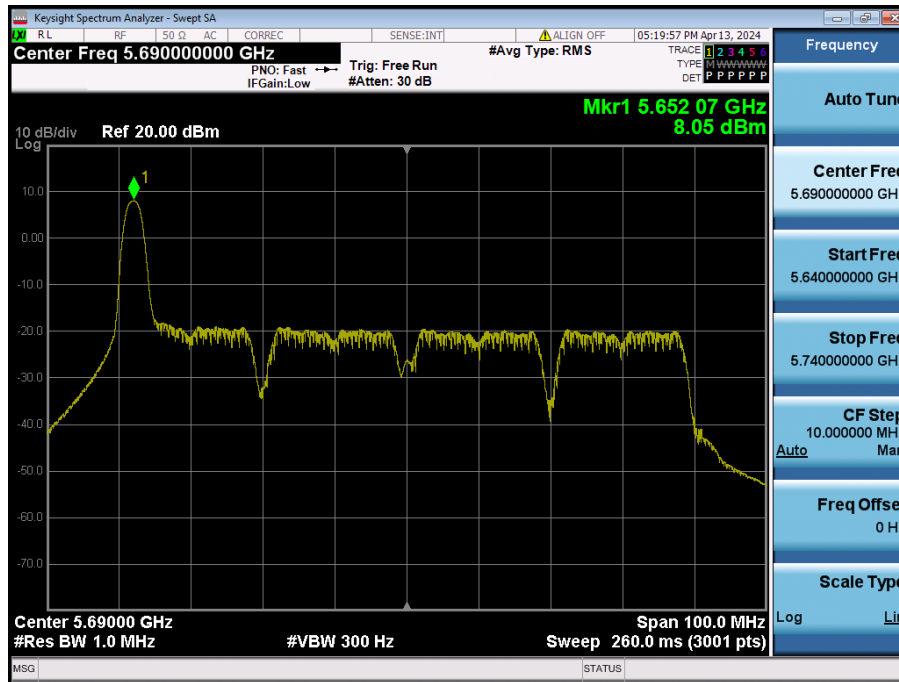
Maximum Power Spectral Density Test Mode: 802.11ax HE80 & ANT 2 & 26 Tone & 0 RU & Ch.106



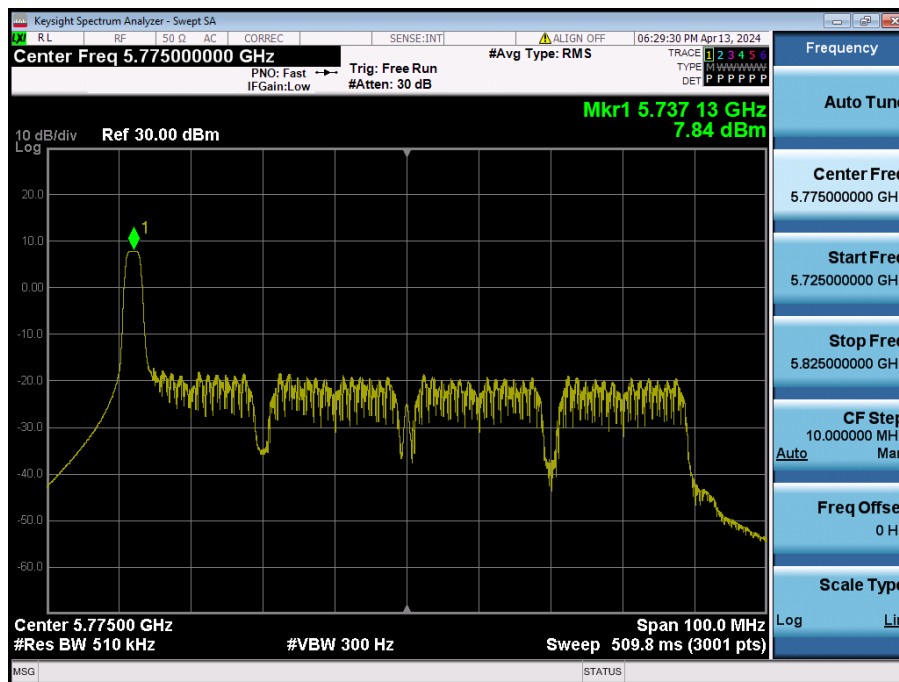
Maximum Power Spectral Density Test Mode: 802.11ax HE80 & ANT 2 & 26 Tone & 0 RU & Ch.122



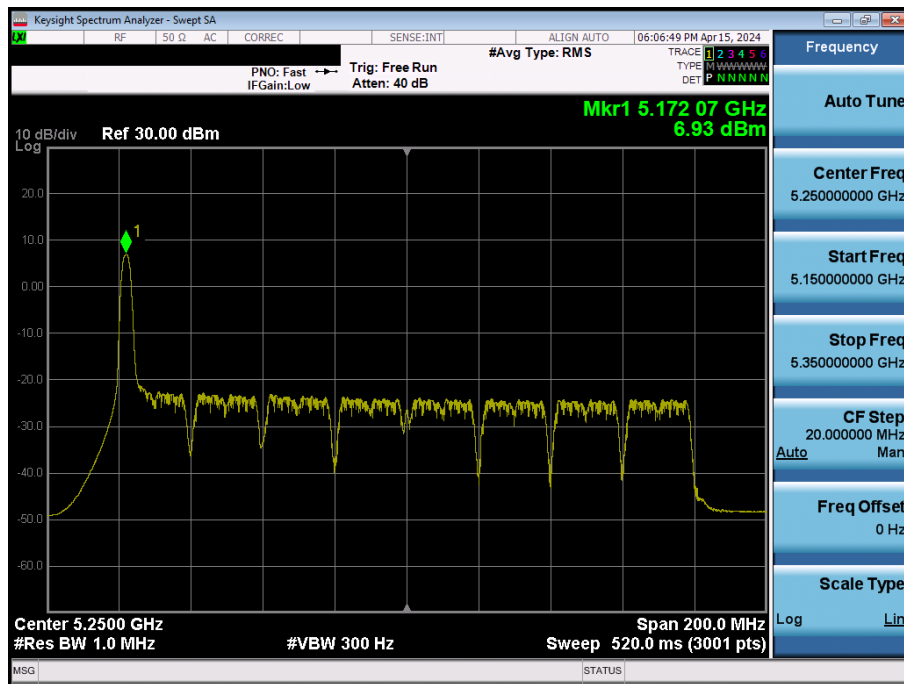
Maximum Power Spectral Density Test Mode: 802.11ax HE80 & ANT 2 & 26 Tone & 0 RU & Ch.138



Maximum Power Spectral Density Test Mode: 802.11ax HE80 & ANT 2 & 26 Tone & 0 RU & Ch.155



Maximum Power Spectral Density Test Mode: 802.11ax HE160 & ANT 2 & 26 Tone & 0L RU & Ch.50



Maximum Power Spectral Density Test Mode: 802.11ax HE160 & ANT 2 & 26 Tone & 0L RU & Ch.114

