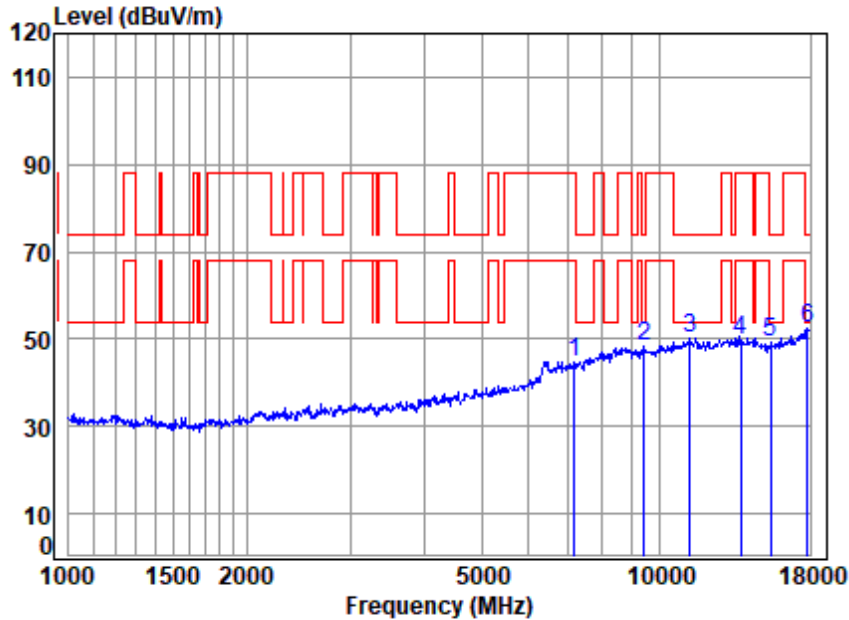


Test Mode: 27; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 6875 TX RSE

: Wi-Fi 6E 11A

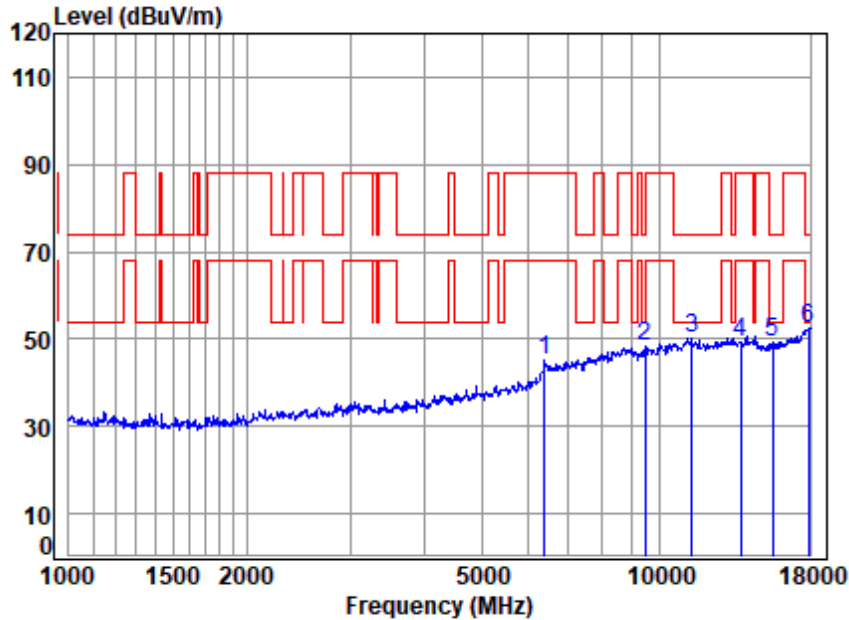
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7179.527	11.62	36.56	56.56	53.29	44.91	88.20	-43.29	peak
2	9420.880	12.35	38.80	54.62	51.96	48.49	74.00	-25.51	peak
3	11269.860	14.68	39.67	53.58	49.20	49.97	74.00	-24.03	peak
4	13750.000	16.18	39.95	54.43	48.02	49.72	88.20	-38.48	peak
5	15443.410	16.82	38.60	54.17	47.99	49.24	74.00	-24.76	peak
6	pp17844.590	18.21	42.77	54.47	45.93	52.44	74.00	-21.56	peak



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Test Mode: 27; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04390WM

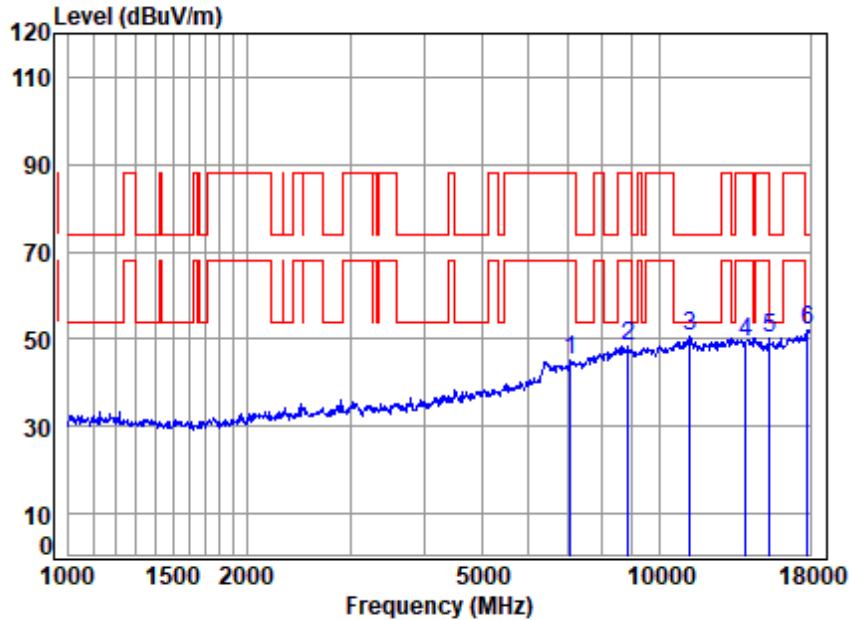
Mode : 6875 TX RSE

: Wi-Fi 6E 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6395.654	13.23	34.79	56.82	54.20	45.40	88.20	-42.80	peak
2	9448.149	12.43	38.80	54.60	51.55	48.18	74.00	-25.82	peak
3	11368.000	14.35	39.70	53.61	49.83	50.27	74.00	-23.73	peak
4	13750.000	16.18	39.95	54.43	47.69	49.39	88.20	-38.81	peak
5	15532.940	16.98	38.57	54.14	47.76	49.17	74.00	-24.83	peak
6	pp17896.250	18.25	43.08	54.48	45.45	52.30	74.00	-21.70	peak



Test Mode: 27; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 6995 TX RSE

: Wi-Fi 6E 11A

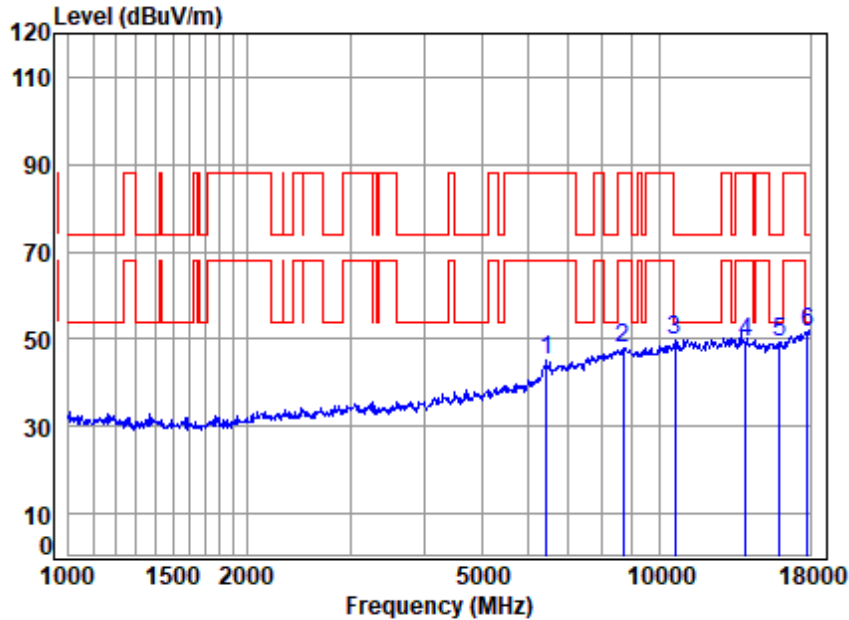
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7076.516	11.85	36.35	56.64	53.41	44.97	88.20	-43.23	peak
2	8866.062	12.23	38.53	55.12	52.75	48.39	88.20	-39.81	peak
3	11269.860	14.68	39.67	53.58	49.67	50.44	74.00	-23.56	peak
4	13990.000	16.42	39.90	54.40	47.29	49.21	88.20	-38.99	peak
5	15354.390	16.84	38.65	54.19	48.79	50.09	74.00	-23.91	peak
6	pp17844.590	18.21	42.77	54.47	45.69	52.20	74.00	-21.80	peak



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Test Mode: 27; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04390WM

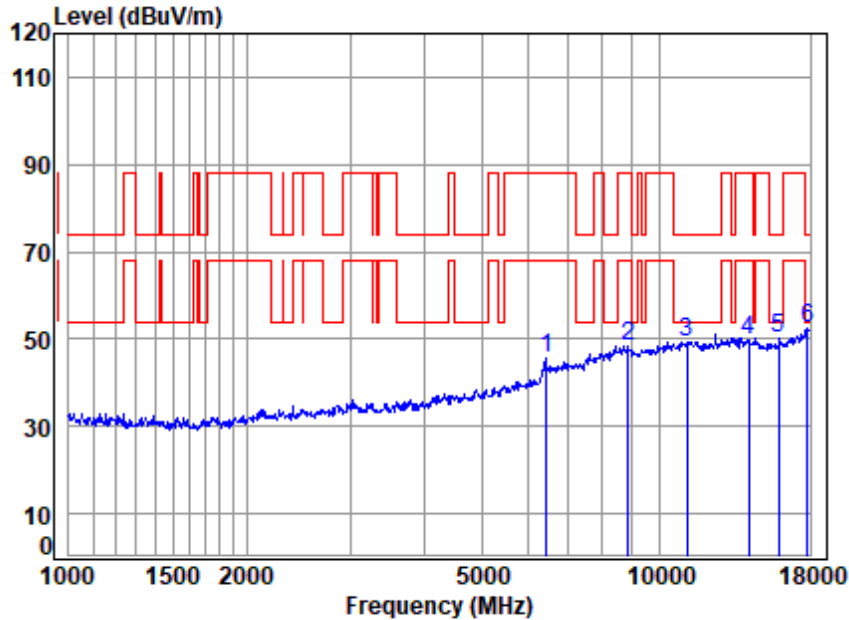
Mode : 6995 TX RSE

: Wi-Fi 6E 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6432.732	12.79	34.80	56.81	54.35	45.13	88.20	-43.07	peak
2	8688.480	12.08	38.55	55.28	52.59	47.94	88.20	-40.26	peak
3	10636.850	13.76	39.34	53.72	50.49	49.87	74.00	-24.13	peak
4	13990.000	16.42	39.90	54.40	47.32	49.24	88.20	-38.96	peak
5	15988.450	17.16	38.61	54.00	47.62	49.39	74.00	-24.61	peak
6	pp17793.090	18.18	42.45	54.46	45.41	51.58	74.00	-22.42	peak



Test Mode: 27; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04390WM

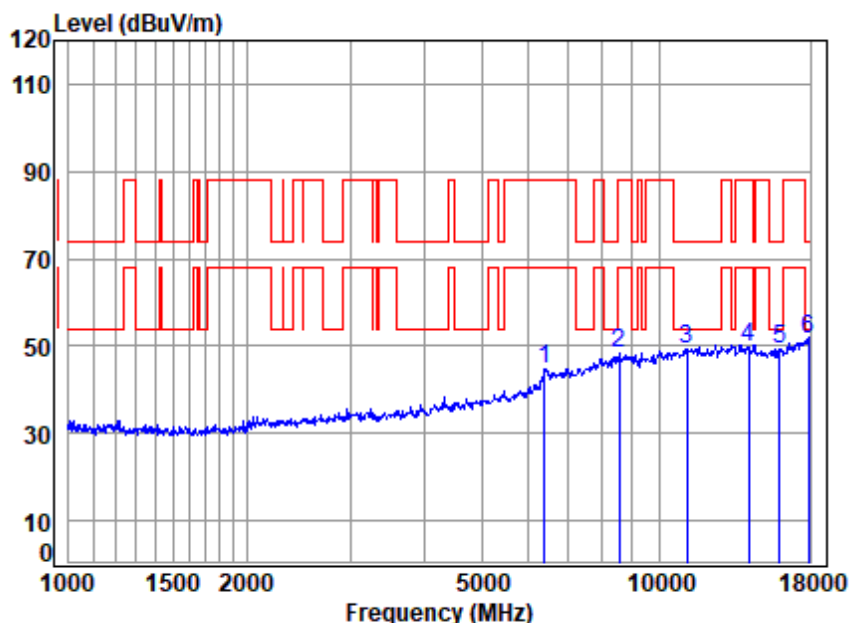
Mode : 7095 TX RSE

: Wi-Fi 6E 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6432.732	12.79	34.80	56.81	54.99	45.77	88.20	-42.43	Peak
2	8840.473	12.24	38.50	55.14	52.87	48.47	88.20	-39.73	peak
3	11140.310	14.70	39.54	53.54	48.75	49.45	74.00	-24.55	peak
4	14190.000	15.99	39.81	54.38	48.16	49.58	88.20	-38.62	peak
5	15942.300	17.22	38.66	54.02	48.19	50.05	74.00	-23.95	peak
6	pp17793.090	18.18	42.45	54.46	46.50	52.67	74.00	-21.33	peak



Test Mode: 27; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04390WM

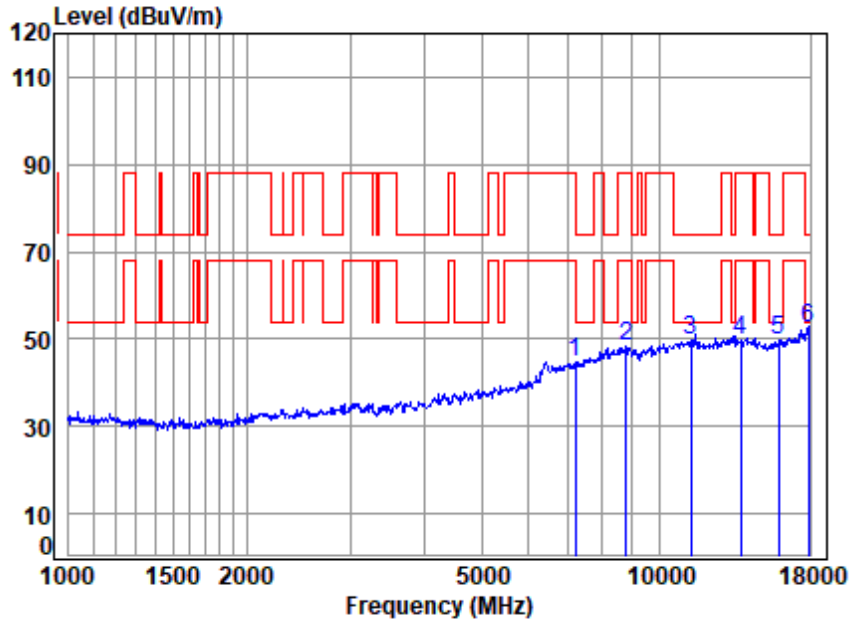
Mode : 7095 TX RSE

: Wi-Fi 6E 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	6395.654	13.23	34.79	56.82	53.42	44.62	88.20	-43.58	Peak
2	8539.102	12.17	38.30	55.41	53.33	48.39	88.20	-39.81	peak
3	11140.310	14.70	39.54	53.54	48.65	49.35	74.00	-24.65	peak
4	14190.000	15.99	39.81	54.38	48.30	49.72	88.20	-38.48	peak
5	15988.450	17.16	38.61	54.00	47.54	49.31	74.00	-24.69	peak
6	pp17896.250	18.25	43.08	54.48	44.58	51.43	74.00	-22.57	peak



Test Mode: 27; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04390WM

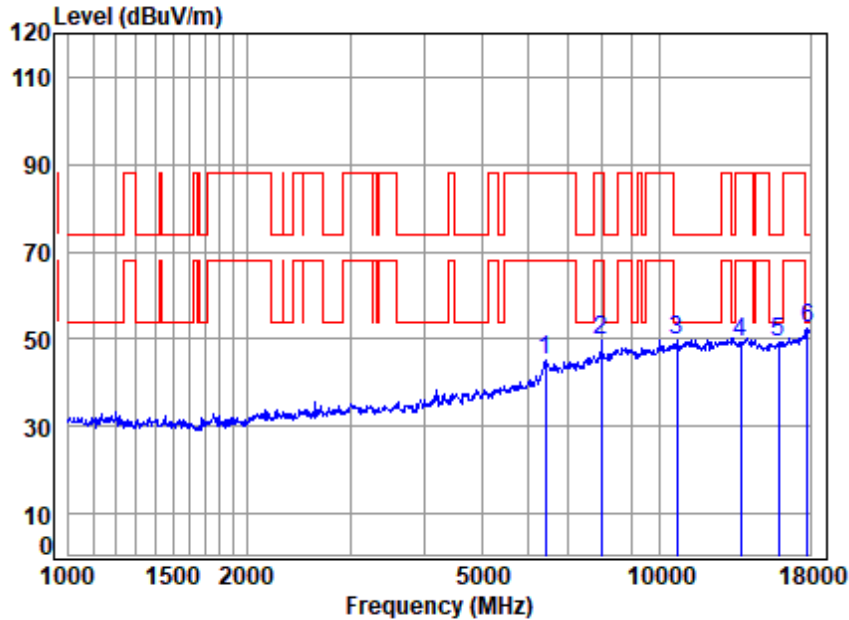
Mode : 6875 TX RSE

: Wi-Fi 6E 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7200.309	11.52	36.60	56.54	52.93	44.51	88.20	-43.69	peak
2	8789.516	12.23	38.50	55.19	53.02	48.56	88.20	-39.64	peak
3	11302.480	14.63	39.70	53.59	49.10	49.84	74.00	-24.16	peak
4	13750.000	16.18	39.95	54.43	48.15	49.85	88.20	-38.35	peak
5	15942.300	17.22	38.66	54.02	47.92	49.78	74.00	-24.22	peak
6	pp17896.250	18.25	43.08	54.48	45.61	52.46	74.00	-21.54	peak



Test Mode: 27; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04390WM

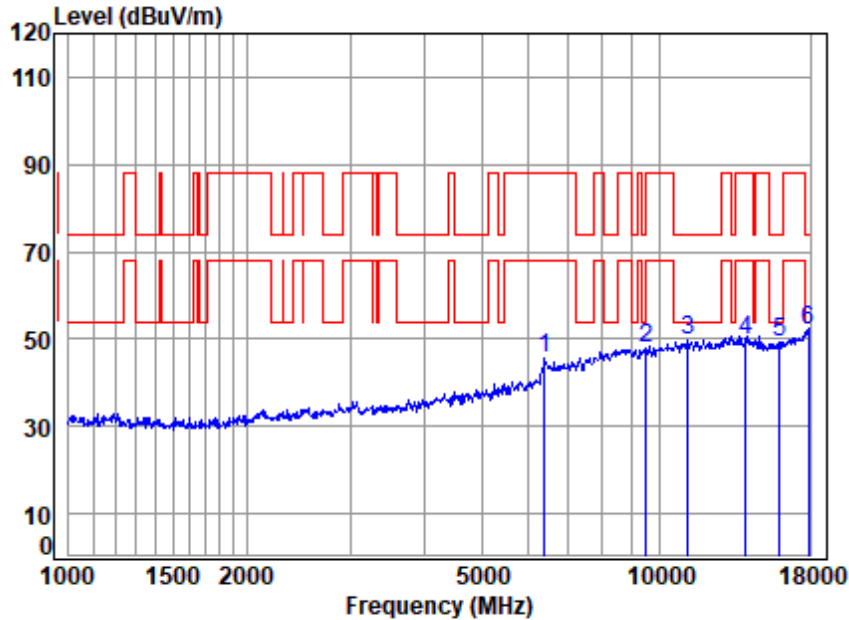
Mode : 6875 TX RSE

: Wi-Fi 6E 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6414.167	13.10	34.80	56.82	53.92	45.00	88.20	-43.20	peak
2	7989.893	11.56	37.78	55.91	56.08	49.51	88.20	-38.69	peak
3	10698.510	14.03	39.40	53.68	49.99	49.74	74.00	-24.26	peak
4	13750.000	16.18	39.95	54.43	47.75	49.45	88.20	-38.75	peak
5	15896.290	17.27	38.69	54.03	47.57	49.50	74.00	-24.50	peak
6	pp17844.590	18.21	42.77	54.47	46.12	52.63	74.00	-21.37	peak



Test Mode: 27; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 6995 TX RSE

: Wi-Fi 6E 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6395.654	13.23	34.79	56.82	54.63	45.83	88.20	-42.37	peak
2	9502.925	12.56	38.89	54.55	51.10	48.00	88.20	-40.20	peak
3	11172.560	14.73	39.57	53.55	48.82	49.57	74.00	-24.43	peak
4	13990.000	16.42	39.90	54.40	47.66	49.58	88.20	-38.62	peak
5	15988.450	17.16	38.61	54.00	47.44	49.21	74.00	-24.79	peak
6	pp17896.250	18.25	43.08	54.48	45.12	51.97	74.00	-22.03	peak



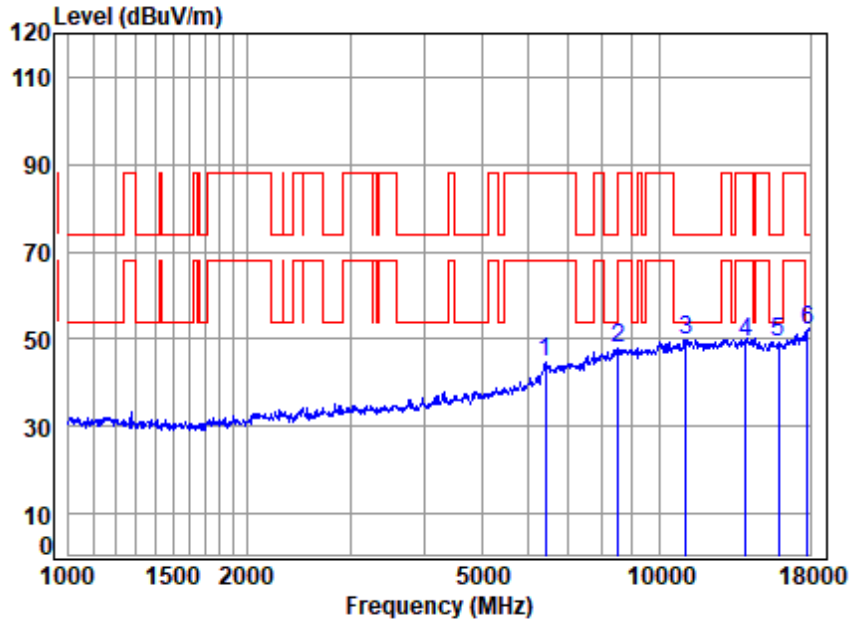
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR251000439007

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Test Mode: 27; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 6995 TX RSE

: Wi-Fi 6E 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6414.167	13.10	34.80	56.82	53.69	44.77	88.20	-43.43	peak
2	8514.456	12.26	38.30	55.44	52.83	47.95	88.20	-40.25	peak
3	11108.160	14.67	39.51	53.53	49.27	49.92	74.00	-24.08	peak
4	13990.000	16.42	39.90	54.40	47.44	49.36	88.20	-38.84	peak
5	15896.290	17.27	38.69	54.03	47.35	49.28	74.00	-24.72	peak
6	pp17844.590	18.21	42.77	54.47	45.65	52.16	74.00	-21.84	peak



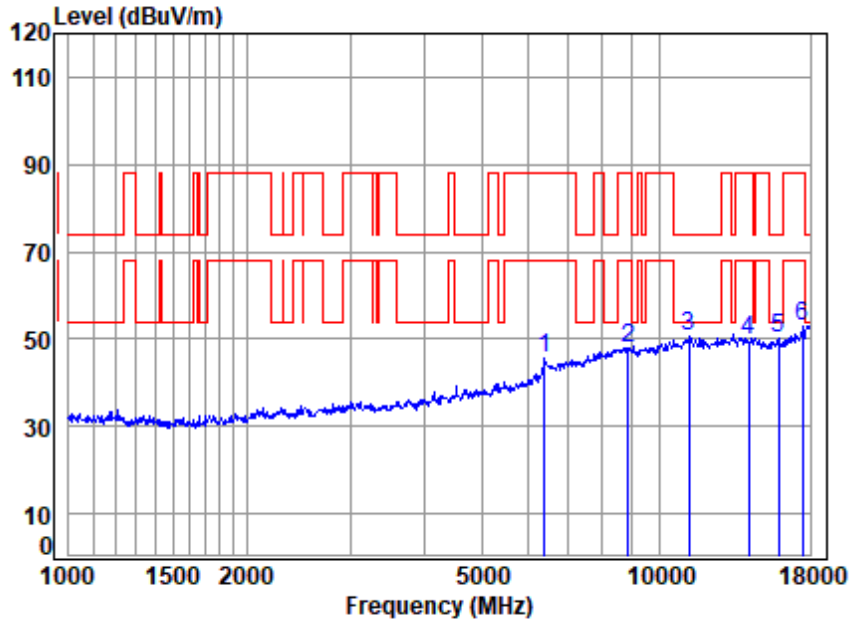
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 27; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04390WM

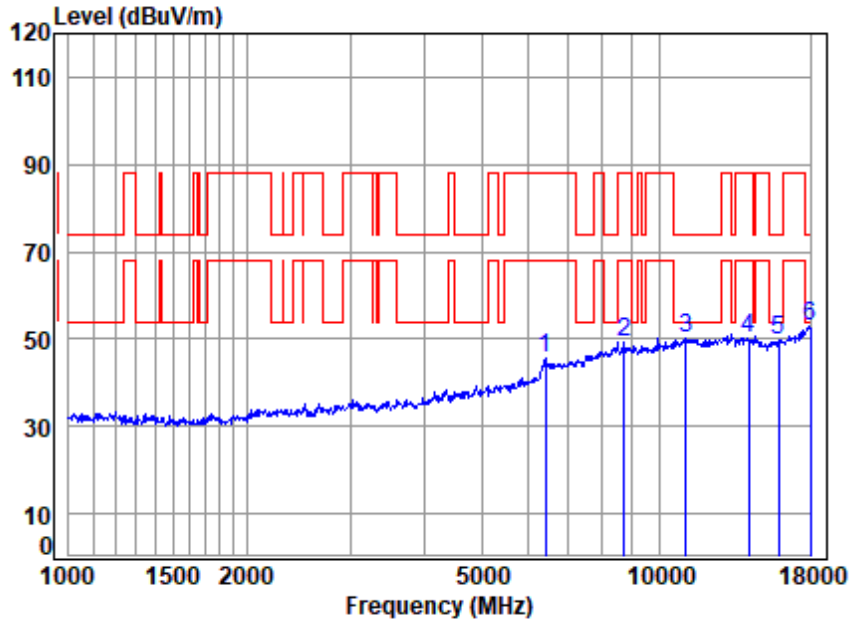
Mode : 7095 TX RSE

: Wi-Fi 6E 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6395.654	13.23	34.79	56.82	54.31	45.51	88.20	-42.69	Peak
2	8840.473	12.24	38.50	55.14	52.47	48.07	88.20	-40.13	peak
3	pp11204.900	14.75	39.60	53.56	49.64	50.43	74.00	-23.57	peak
4	14190.000	15.99	39.81	54.38	48.17	49.59	88.20	-38.61	peak
5	15896.290	17.27	38.69	54.03	48.16	50.09	74.00	-23.91	peak
6	17487.180	18.02	40.84	54.40	48.37	52.83	88.20	-35.37	Peak



Test Mode: 27; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 7095 TX RSE

: Wi-Fi 6E 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6414.167	13.10	34.80	56.82	54.74	45.82	88.20	-42.38	Peak
2	8713.630	12.11	38.57	55.26	53.88	49.30	88.20	-38.90	peak
3	11108.160	14.67	39.51	53.53	49.65	50.30	74.00	-23.70	peak
4	14190.000	15.99	39.81	54.38	48.61	50.03	88.20	-38.17	peak
5	15942.300	17.22	38.66	54.02	48.05	49.91	74.00	-24.09	peak
6	pp18000.000	18.35	43.80	54.50	45.36	53.01	74.00	-20.99	peak



7.4 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
 Test Method: ANSI C63.10 (2020) Section 6.10.5
 Measurement Distance: 3m
 Test Engineer: Xing Guo

7.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

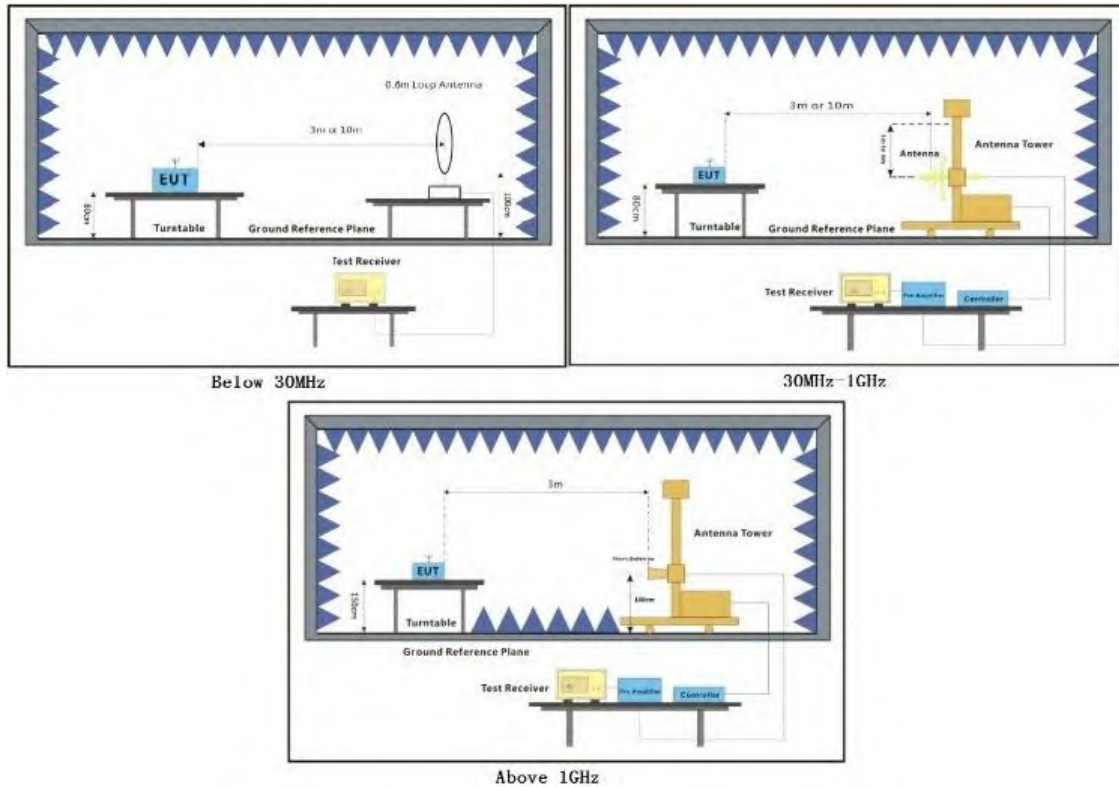
Pre-scan / Final test	Mode Code	Description
Final test	24	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	25	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	26	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	27	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	28	Charge + TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	29	Charge + TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	30	Charge + TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	31	Charge + TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.



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7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



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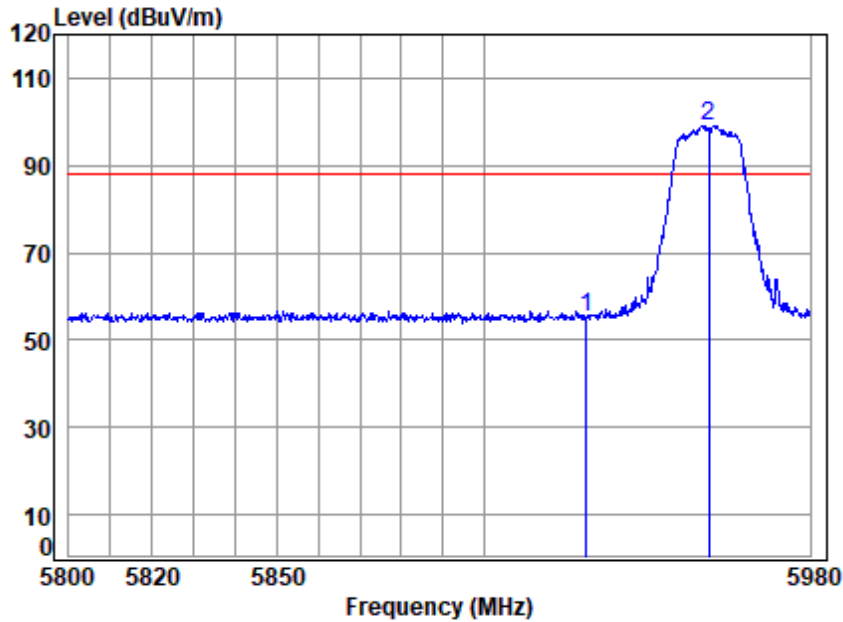
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Remark: Only retain the data of the worst-case 11a and 11ax(full RU) modes.

Test Mode: 24; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5955 Band edge
: Wi-Fi 6E 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	41.17	55.06	88.20	-33.14	peak
2	pp 5955.000	10.85	33.62	30.52	85.23	99.18	88.20	10.98	peak



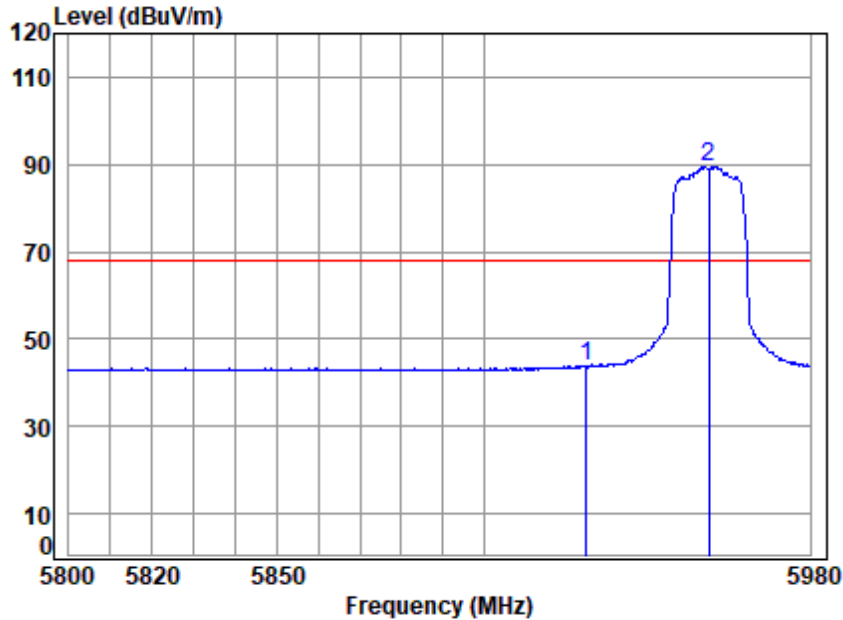
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Test Mode: 24; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5955 Band edge

: Wi-Fi 6E 11A

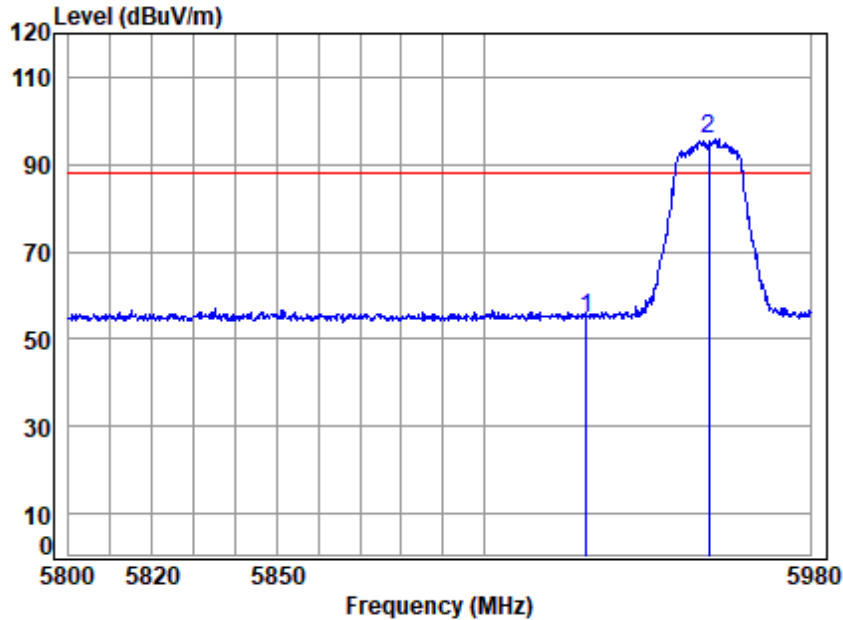
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	29.68	43.57	68.20	-24.63	Average
2	5955.000	10.85	33.62	30.52	75.58	89.53	68.20	21.33	Average



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Test Mode: 24; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5955 Band edge

: Wi-Fi 6E 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	40.98	54.87	88.20	-33.33	peak
2	5955.000	10.85	33.62	30.52	82.02	95.97	88.20	7.77	peak



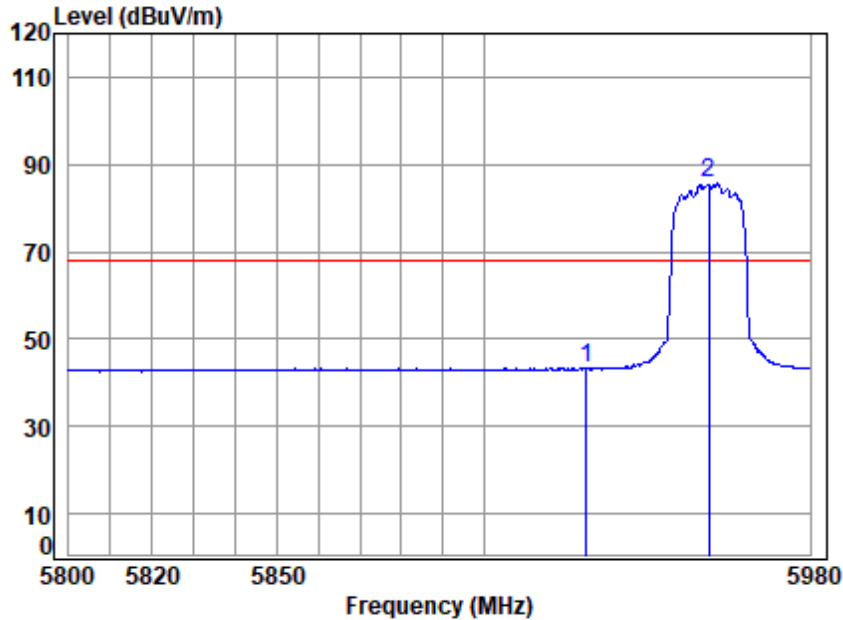
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Test Mode: 24; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5955 Band edge

: Wi-Fi 6E 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	29.28	43.17	68.20	-25.03	Average
2	pp 5955.000	10.85	33.62	30.52	71.71	85.66	68.20	17.46	Average



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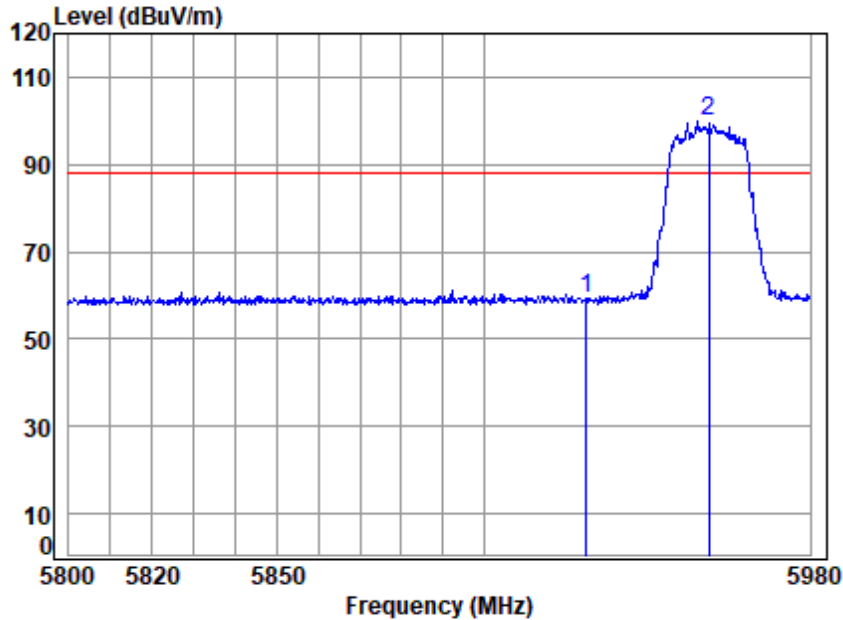
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Test Mode: 24; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5955 Band edge

: Wi-Fi 6E 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	45.63	59.52	88.20	-28.68	peak
2	5955.000	10.85	33.62	30.52	86.13	100.08	88.20	11.88	peak



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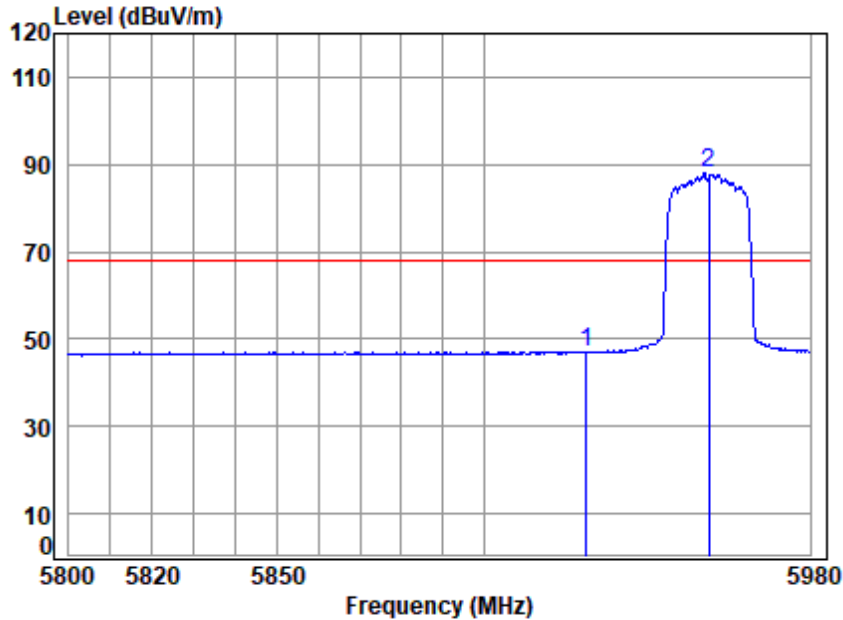
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Test Mode: 24; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5955 Band edge

: Wi-Fi 6E 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	33.12	47.01	68.20	-21.19	Average
2 pp	5955.000	10.85	33.62	30.52	74.04	87.99	68.20	19.79	Average



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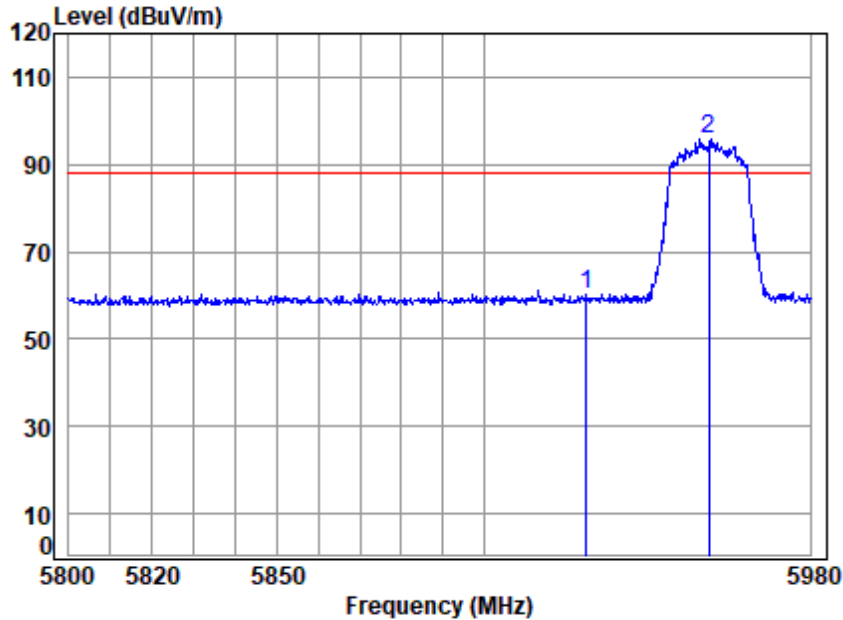
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Test Mode: 24; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5955 Band edge
: Wi-Fi 6E 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	46.19	60.08	88.20	-28.12	peak
2	5955.000	10.85	33.62	30.52	81.98	95.93	88.20	7.73	peak



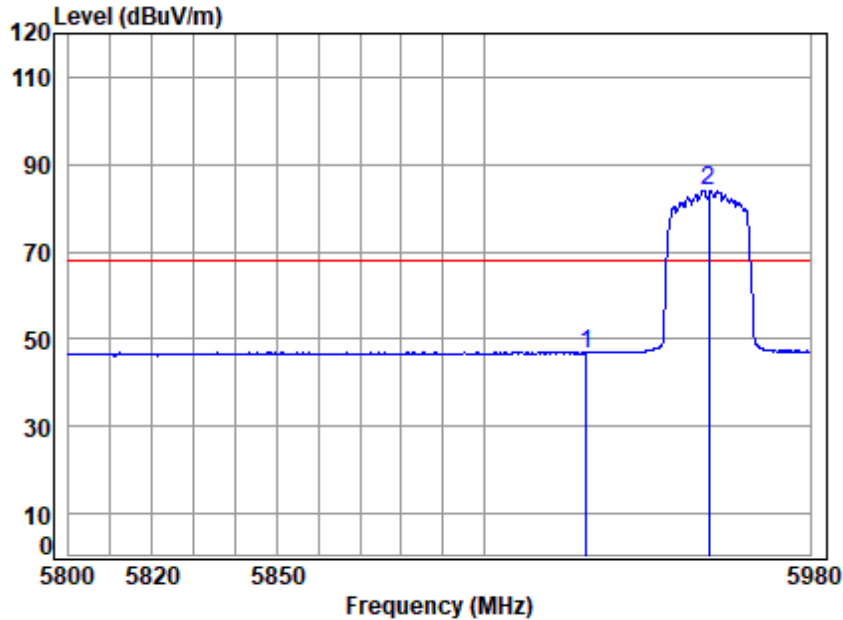
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Test Mode: 24; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5955 Band edge

: Wi-Fi 6E 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	32.88	46.77	68.20	-21.43	Average
2	5955.000	10.85	33.62	30.52	70.14	84.09	68.20	15.89	Average



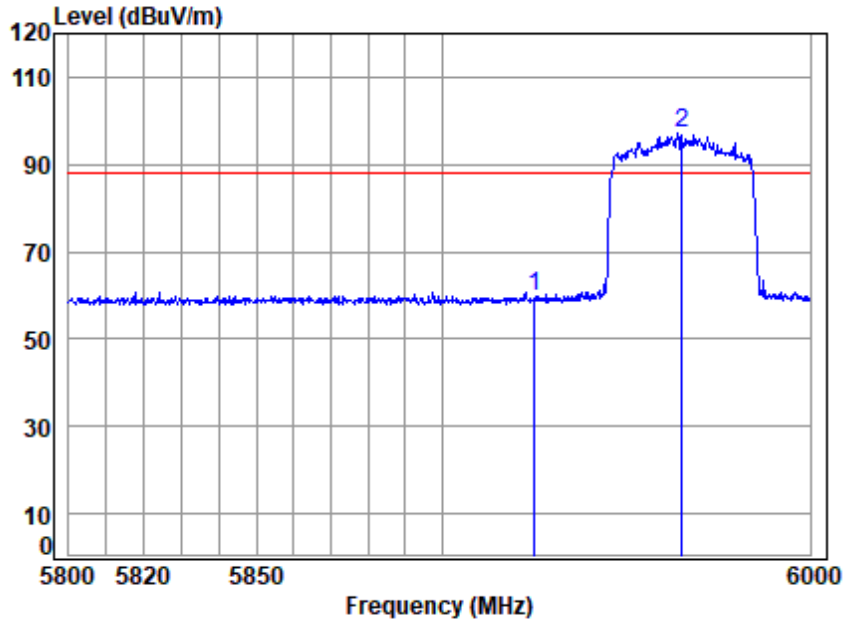
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Test Mode: 24; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5965 Band edge

: Wi-Fi 6E 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	46.00	59.89	88.20	-28.31	peak
2	5965.000	10.84	33.66	30.51	83.02	97.01	88.20	8.81	peak



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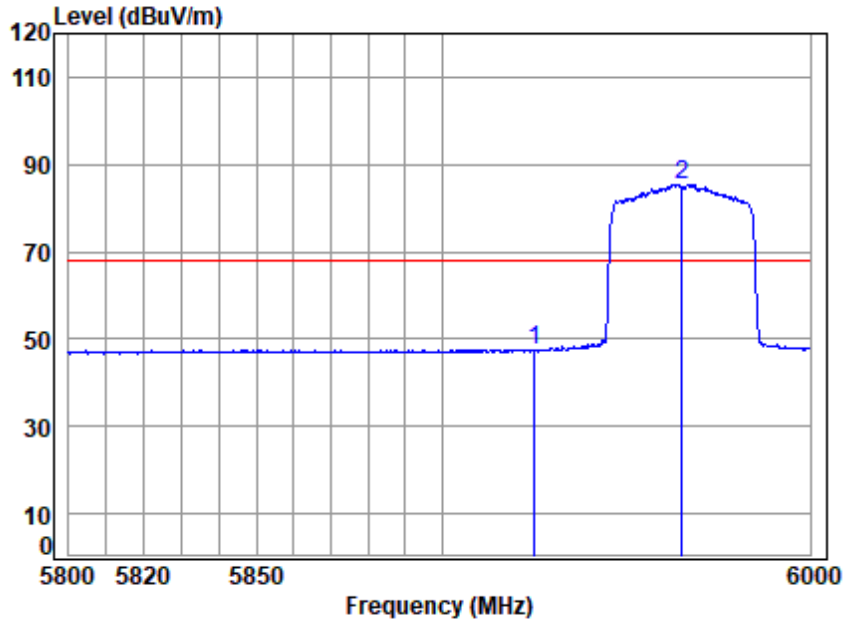
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Test Mode: 24; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5965 Band edge

: Wi-Fi 6E 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	33.47	47.36	68.20	-20.84	Average
2	pp 5965.000	10.84	33.66	30.51	71.44	85.43	68.20	17.23	Average



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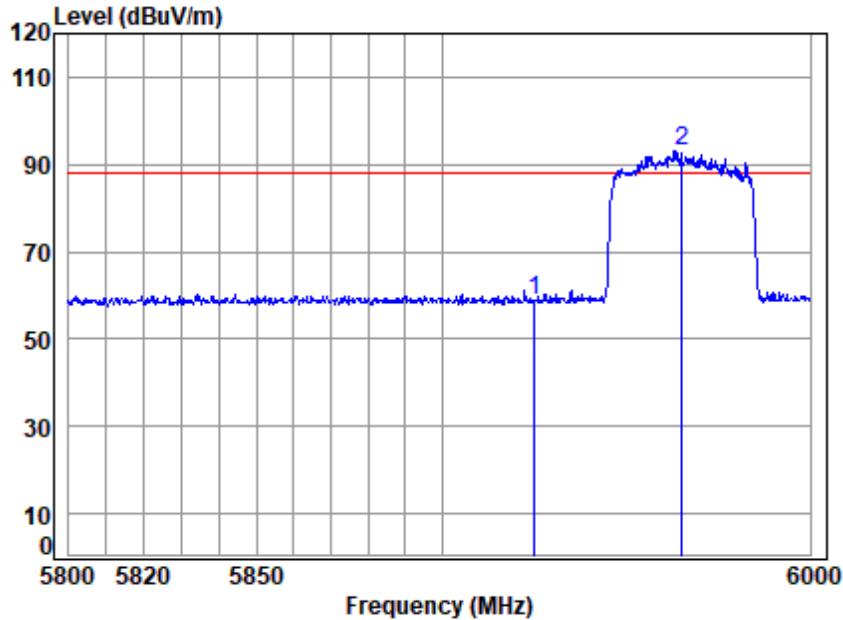
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Test Mode: 24; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5965 Band edge

: Wi-Fi 6E 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	44.78	58.67	88.20	-29.53	peak
2	5965.000	10.84	33.66	30.51	79.09	93.08	88.20	4.88	peak



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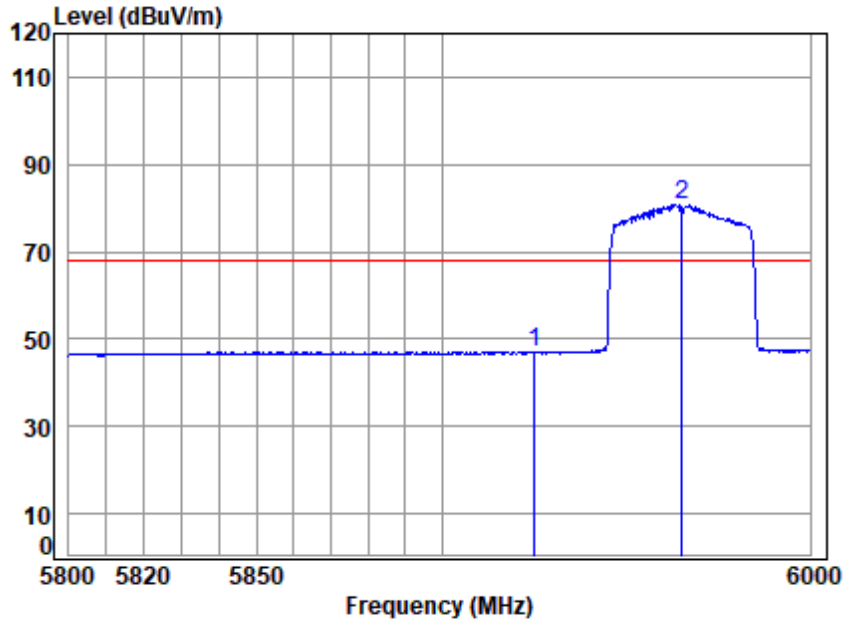
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Test Mode: 24; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5965 Band edge
: Wi-Fi 6E 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	32.89	46.78	68.20	-21.42	Average
2	5965.000	10.84	33.66	30.51	66.69	80.68	68.20	12.48	Average



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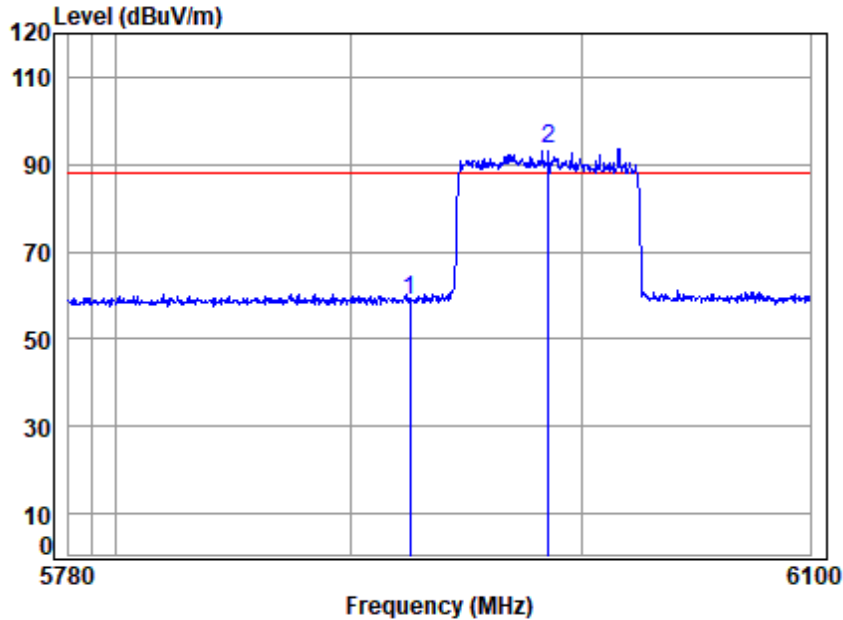
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SZEMC-TRF-01 Rev. A/1

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Test Mode: 24; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5985 Band edge

: Wi-Fi 6E 11AX80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	45.05	58.94	88.20	-29.26	peak
2	5985.000	10.82	33.74	30.51	79.51	93.56	88.20	5.36	peak



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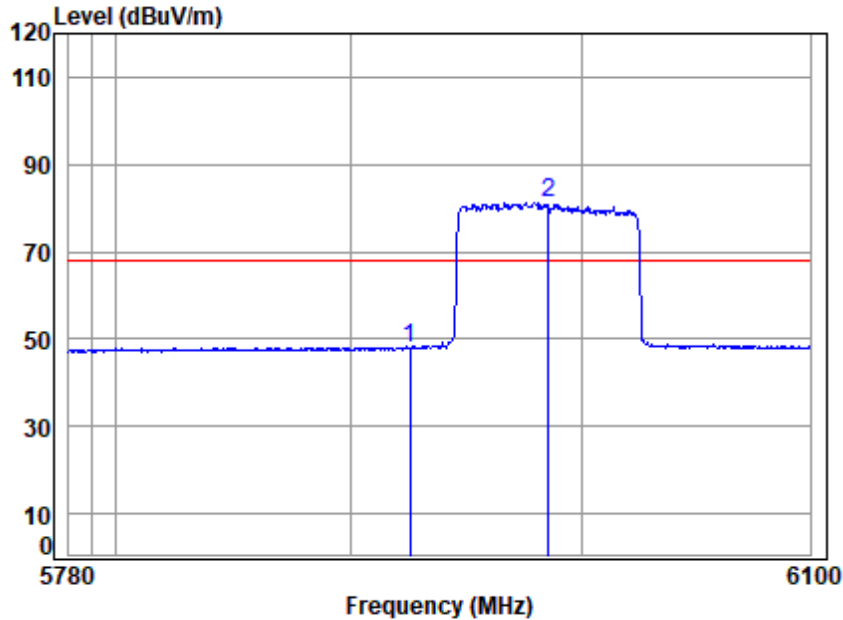
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR251000439007

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Test Mode: 24; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5985 Band edge

: Wi-Fi 6E 11AX80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	34.01	47.90	68.20	-20.30 Average
2	pp 5985.000	10.82	33.74	30.51	67.32	81.37	68.20	13.17 Average



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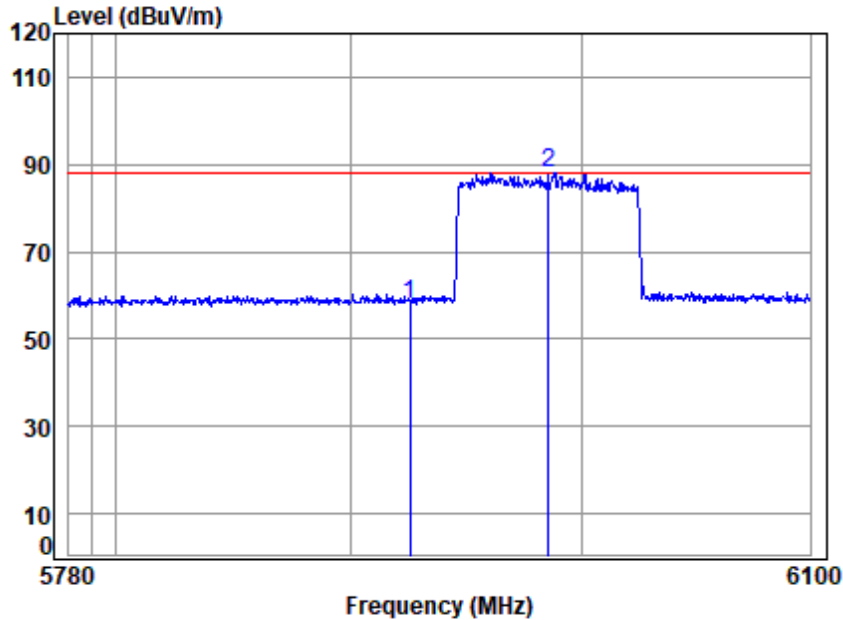
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Report No.: SZCR251000439007

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Test Mode: 24; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5985 Band edge
: Wi-Fi 6E 11AX80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5925.000	10.87	33.55	30.53	44.25	58.14	88.20	-30.06 peak
2	5985.000	10.82	33.74	30.51	74.03	88.08	88.20	-0.12 peak



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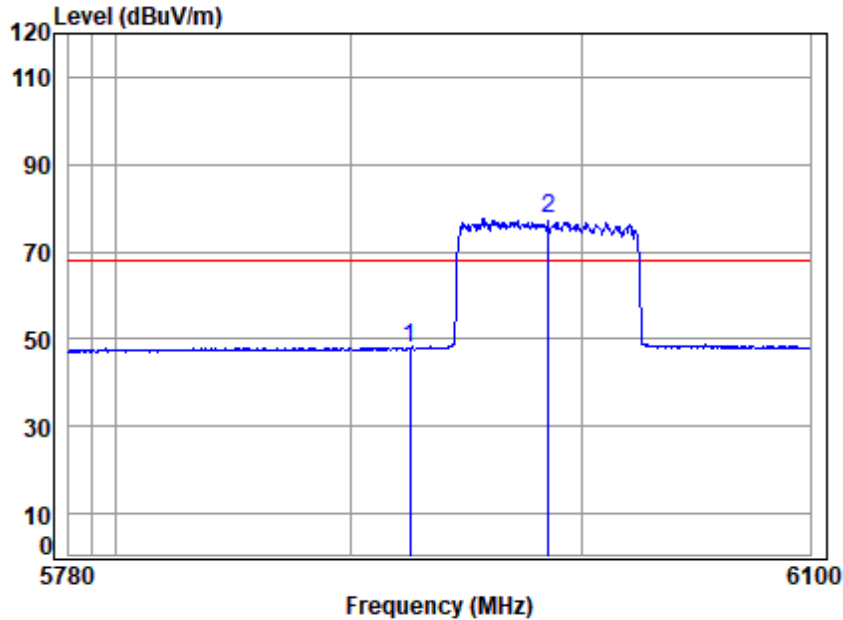
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR251000439007

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Test Mode: 24; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5985 Band edge
: Wi-Fi 6E 11AX80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5925.000	10.87	33.55	30.53	34.09	47.98	68.20	-20.22 Average
2 pp	5985.000	10.82	33.74	30.51	63.71	77.76	68.20	9.56 Average



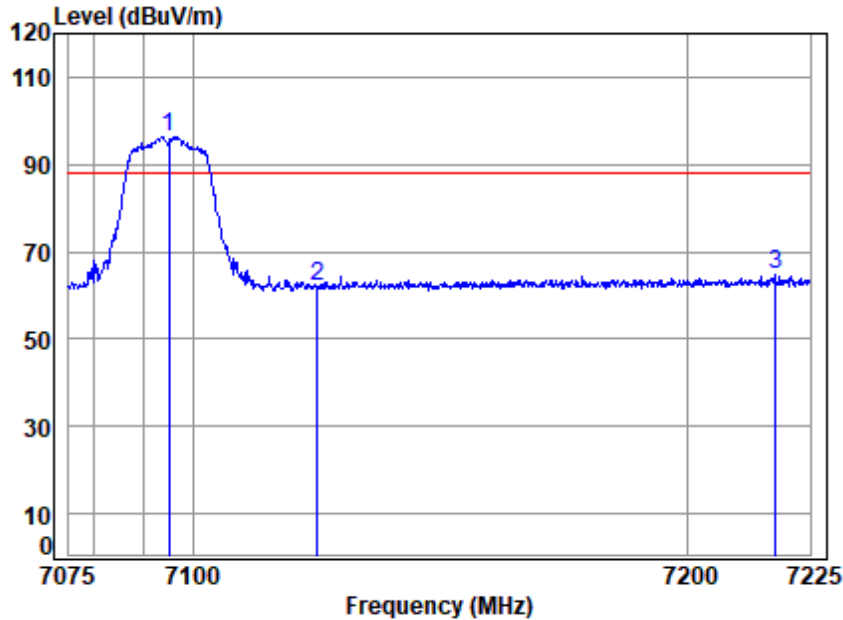
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Test Mode: 27; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 7095 Band edge

: Wi-Fi 6E 11A

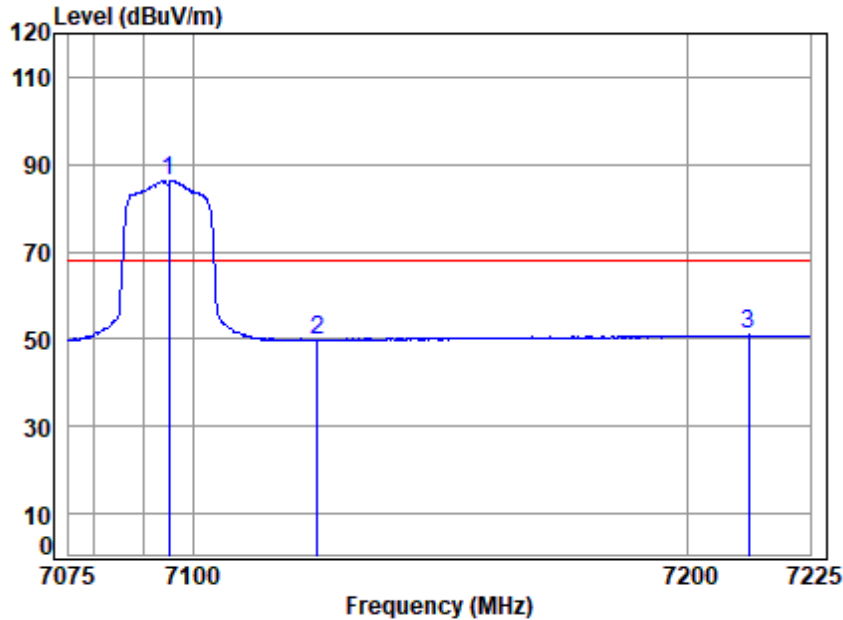
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	7095.000	11.79	36.39	31.25	79.46	96.39	88.20	8.19	peak
2	7125.000	11.82	36.45	31.26	45.14	62.15	88.20	-26.05	peak
3	7217.879	11.89	36.60	31.31	47.80	64.98	88.20	-23.22	peak



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Test Mode: 27; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 7095 Band edge

: Wi-Fi 6E 11A

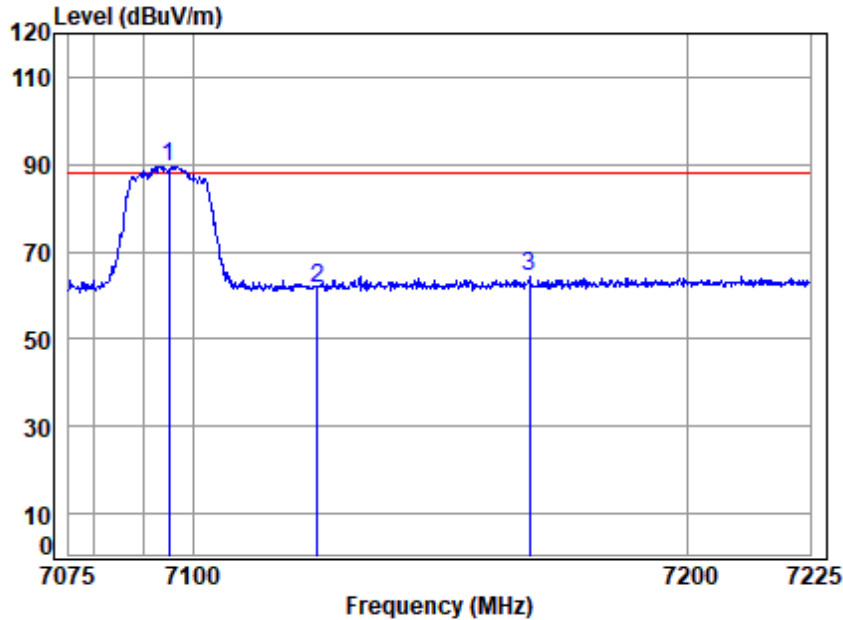
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	7095.000	11.79	36.39	31.25	69.48	86.41	68.20	18.21	Average
2	7125.000	11.82	36.45	31.26	32.81	49.82	68.20	-18.38	Average
3	7212.430	11.89	36.60	31.31	33.74	50.92	68.20	-17.28	Average



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Test Mode: 27; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 7095 Band edge

: Wi-Fi 6E 11A

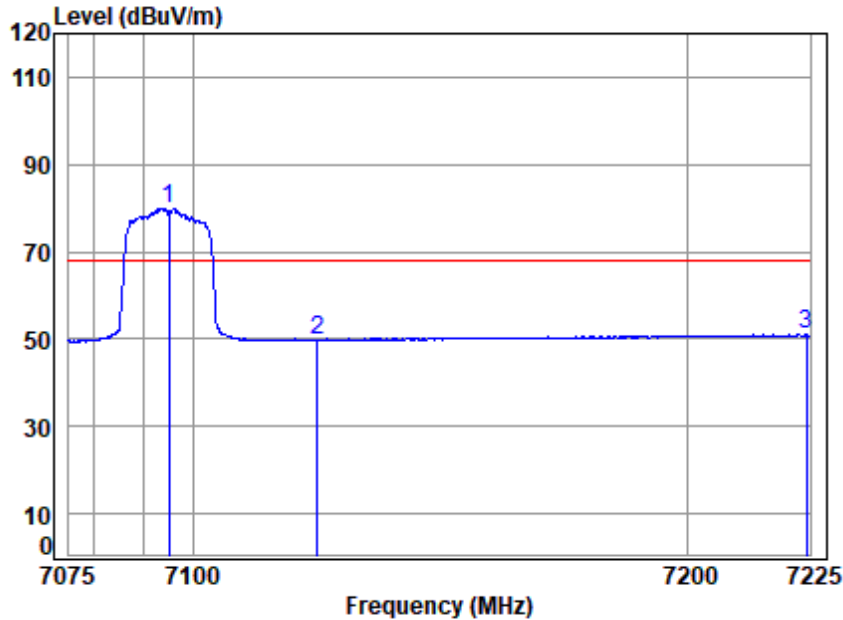
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	7095.000	11.79	36.39	31.25	72.70	89.63	88.20	1.43	peak
2	7125.000	11.82	36.45	31.26	44.62	61.63	88.20	-26.57	peak
3	7167.779	11.86	36.54	31.28	47.20	64.32	88.20	-23.88	peak



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Test Mode: 27; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 7095 Band edge

: Wi-Fi 6E 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	7095.000	11.79	36.39	31.25	63.10	80.03	68.20	11.83	Average
2	7125.000	11.82	36.45	31.26	32.69	49.70	68.20	-18.50	Average
3	7224.242	11.89	36.60	31.31	33.91	51.09	68.20	-17.11	Average



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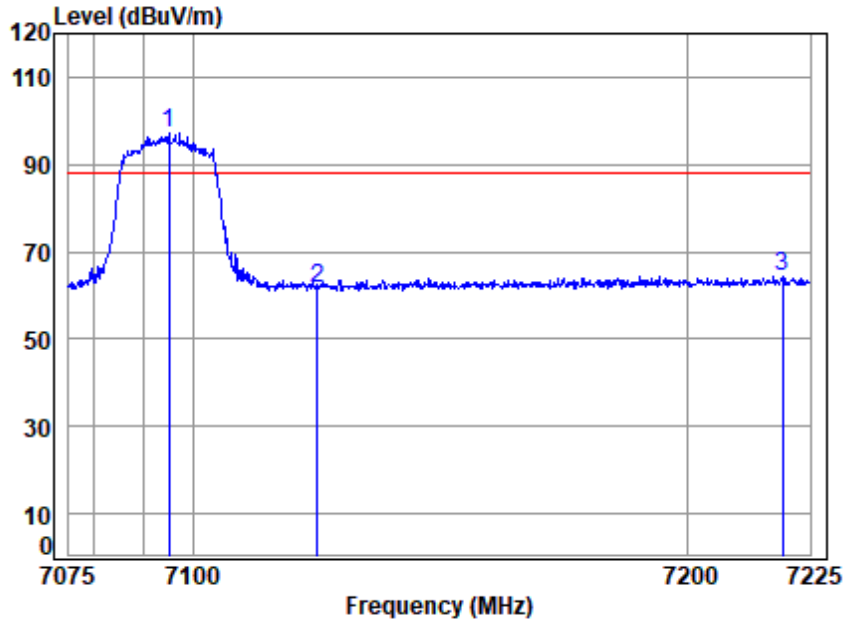
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Test Mode: 27; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 7095 Band edge

: Wi-Fi 6E 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	7095.000	11.79	36.39	31.25	80.42	97.35	88.20	9.15	peak
2	7125.000	11.82	36.45	31.26	44.60	61.61	88.20	-26.59	peak
3	7219.394	11.89	36.60	31.31	47.13	64.31	88.20	-23.89	peak



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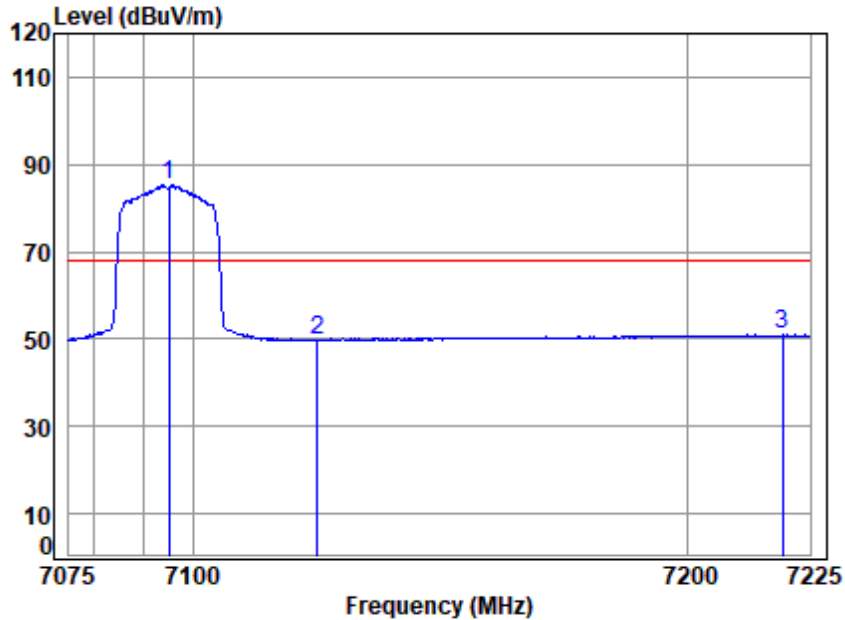
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Report No.: SZCR251000439007

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Test Mode: 27; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 7095 Band edge

: Wi-Fi 6E 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	7095.000	11.79	36.39	31.25	68.31	85.24	68.20	17.04 Average
2	7125.000	11.82	36.45	31.26	32.77	49.78	68.20	-18.42 Average
3	7219.394	11.89	36.60	31.31	33.79	50.97	68.20	-17.23 Average



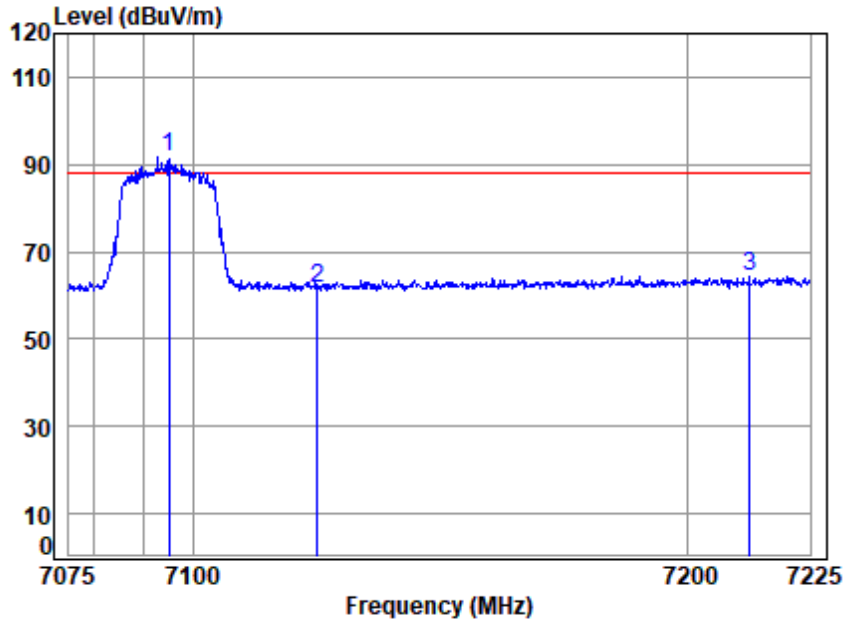
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Test Mode: 27; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 7095 Band edge

: Wi-Fi 6E 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	7095.000	11.79	36.39	31.25	74.61	91.54	88.20	3.34	peak
2	7125.000	11.82	36.45	31.26	44.76	61.77	88.20	-26.43	peak
3	7212.581	11.89	36.60	31.31	47.21	64.39	88.20	-23.81	peak



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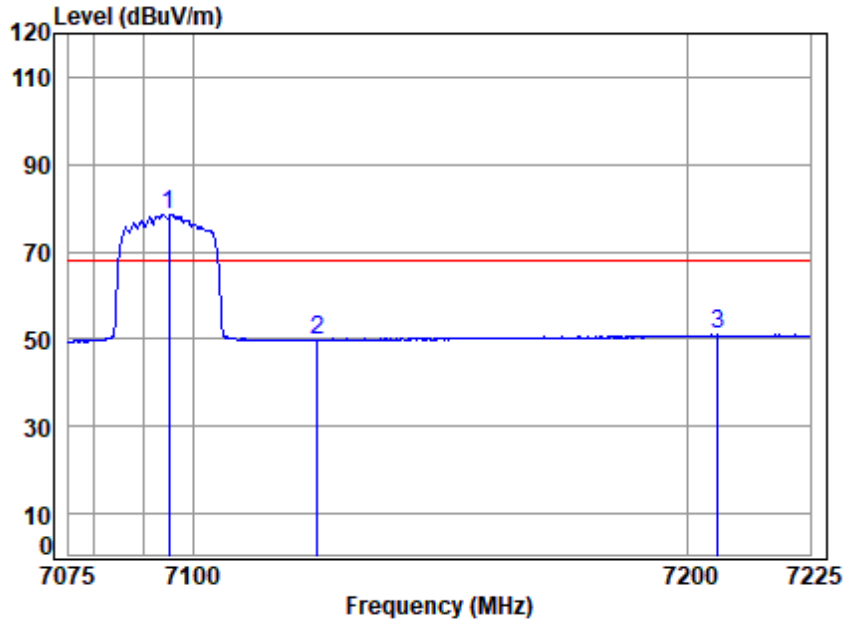
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Test Mode: 27; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 7095 Band edge

: Wi-Fi 6E 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	7095.000	11.79	36.39	31.25	61.70	78.63	68.20	10.43 Average
2	7125.000	11.82	36.45	31.26	32.72	49.73	68.20	-18.47 Average
3	7206.229	11.89	36.60	31.30	33.79	50.98	68.20	-17.22 Average



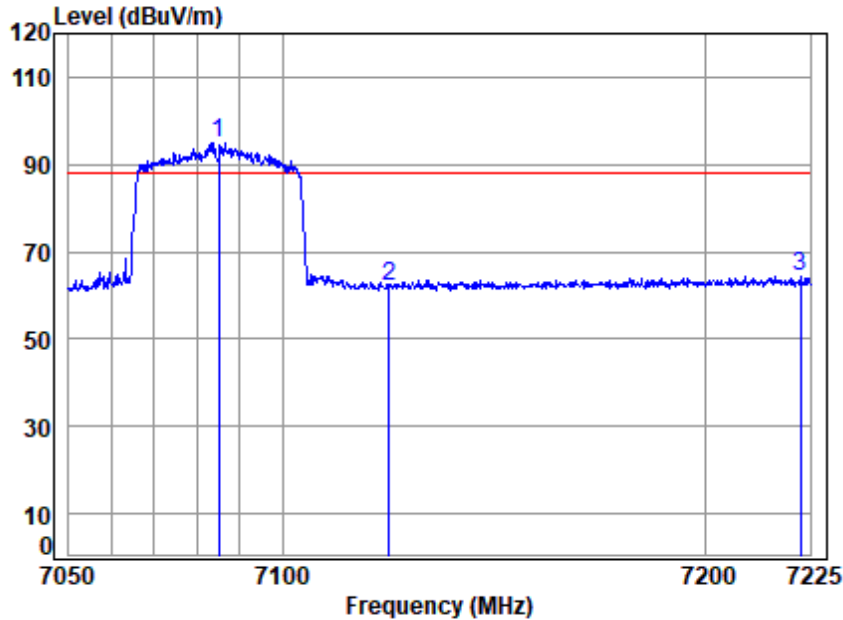
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Test Mode: 27; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 7085 Band edge

: Wi-Fi 6E 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	7085.000	11.77	36.37	31.24	77.93	94.83	88.20	6.63	peak
2	7125.000	11.82	36.45	31.26	45.02	62.03	88.20	-26.17	peak
3	7222.697	11.89	36.60	31.31	47.20	64.38	88.20	-23.82	peak



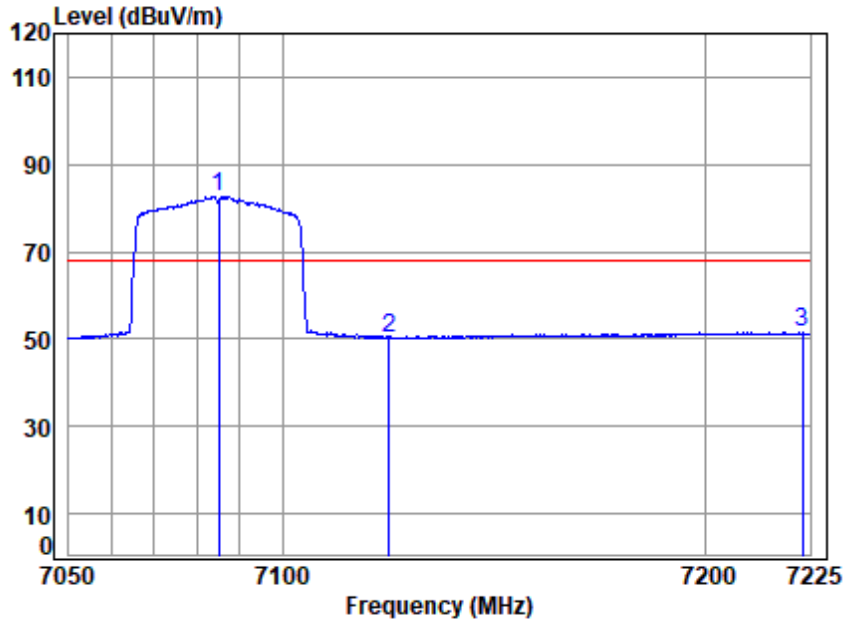
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Test Mode: 27; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 7085 Band edge

: Wi-Fi 6E 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	7085.000	11.77	36.37	31.24	65.79	82.69	68.20	14.49	Average
2	7125.000	11.82	36.45	31.26	33.27	50.28	68.20	-17.92	Average
3	7223.229	11.89	36.60	31.31	34.27	51.45	68.20	-16.75	Average



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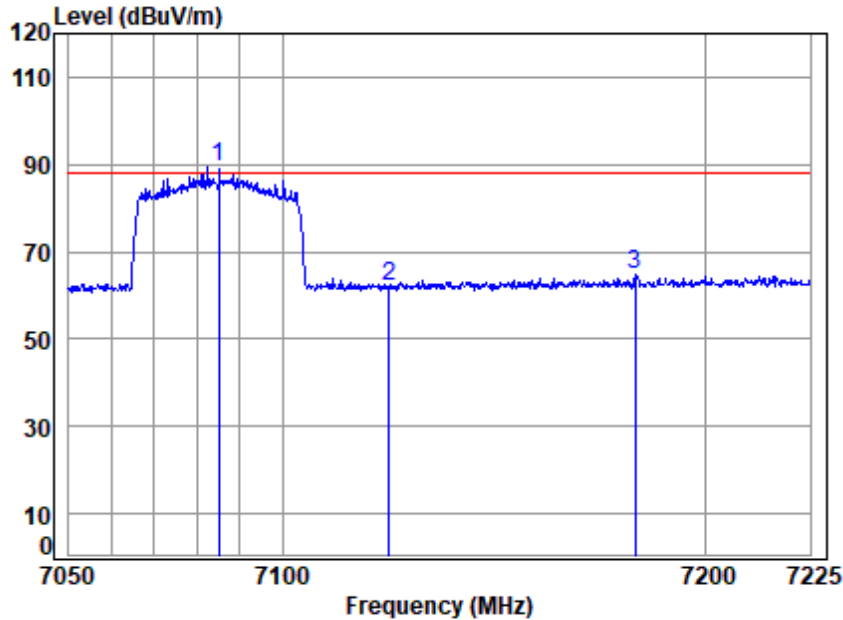
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Test Mode: 27; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 7085 Band edge
: Wi-Fi 6E 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	7085.000	11.77	36.37	31.24	72.67	89.57	88.20	1.37	peak
2	7125.000	11.82	36.45	31.26	44.92	61.93	88.20	-26.27	peak
3	7183.313	11.88	36.57	31.29	47.45	64.61	88.20	-23.59	peak



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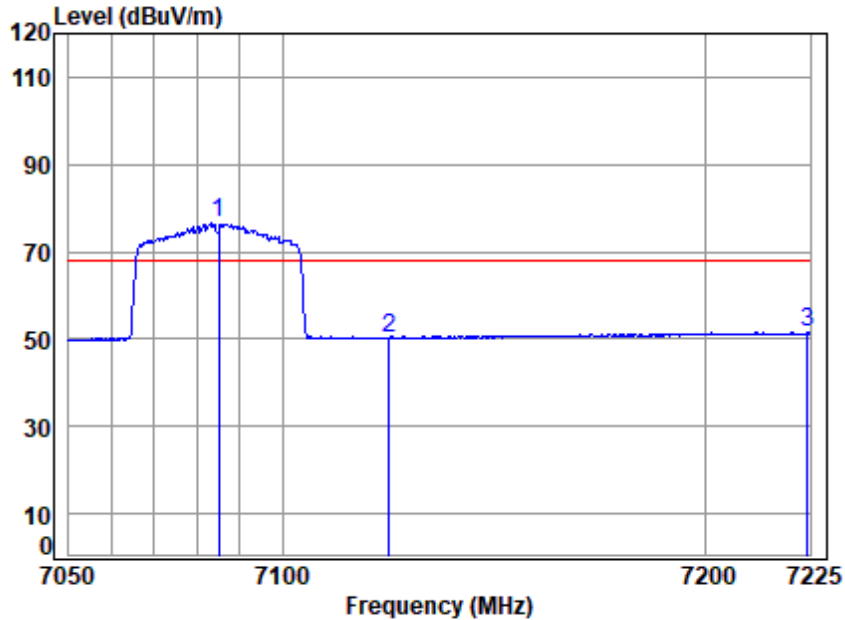
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Test Mode: 27; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 7085 Band edge
: Wi-Fi 6E 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	7085.000	11.77	36.37	31.24	59.57	76.47	68.20	8.27	Average
2	7125.000	11.82	36.45	31.26	33.03	50.04	68.20	-18.16	Average
3	7224.469	11.89	36.60	31.31	34.35	51.53	68.20	-16.67	Average



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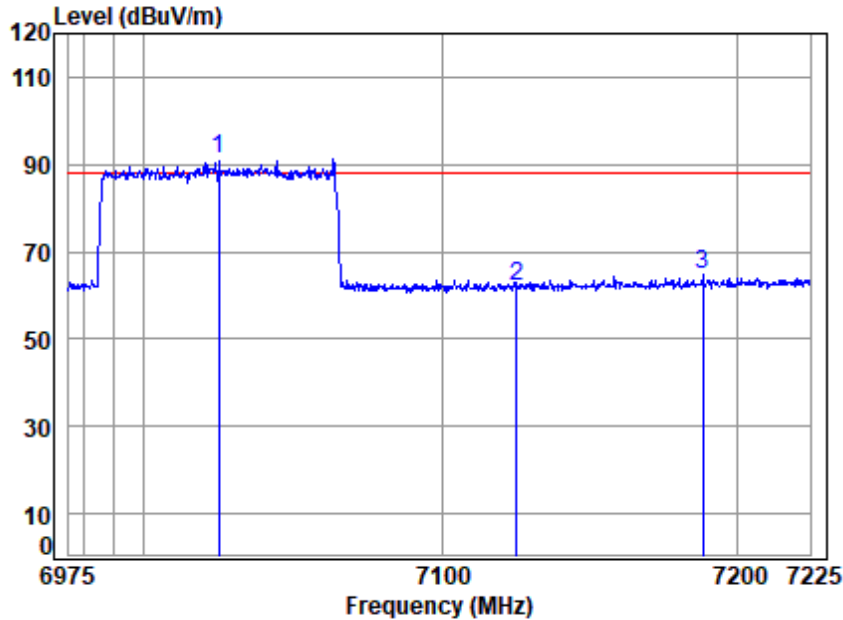
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Test Mode: 27; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 7025 Band edge

: Wi-Fi 6E 11AX80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 7025.000	11.64	36.25	31.21	74.41	91.09	88.20	2.89	peak
2 7125.000	11.82	36.45	31.26	45.18	62.19	88.20	-26.01	peak
3 7188.202	11.88	36.58	31.29	47.45	64.62	88.20	-23.58	peak



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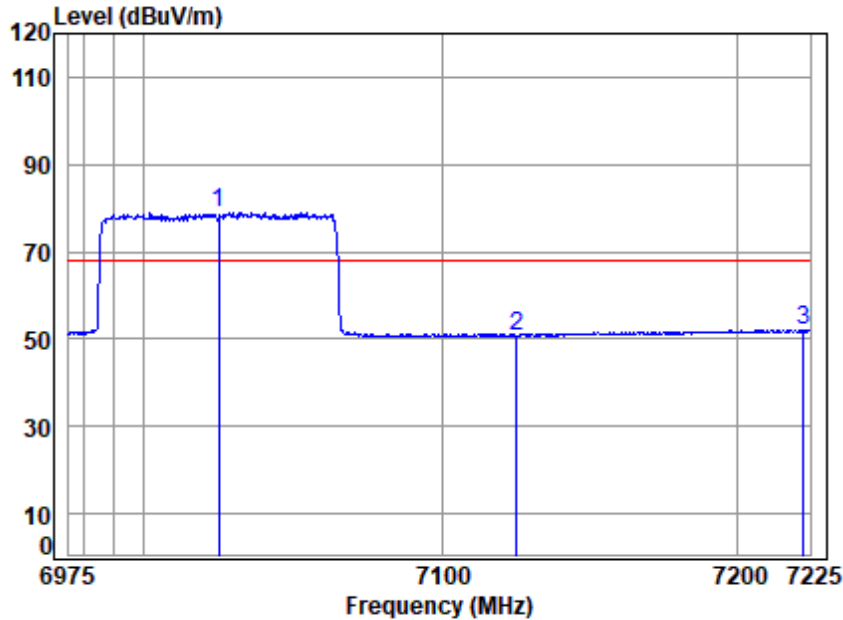
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Test Mode: 27; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 7025 Band edge

: Wi-Fi 6E 11AX80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	7025.000	11.64	36.25	31.21	62.35	79.03	68.20	10.83 Average
2	7125.000	11.82	36.45	31.26	33.75	50.76	68.20	-17.44 Average
3	7222.710	11.89	36.60	31.31	34.91	52.09	68.20	-16.11 Average



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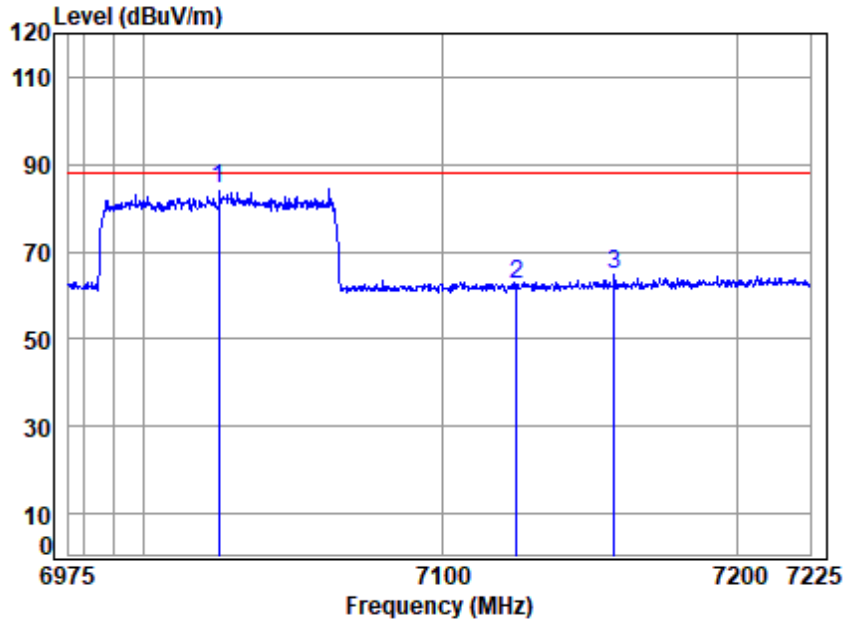
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Test Mode: 27; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 7025 Band edge

: Wi-Fi 6E 11AX80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	7025.000	11.64	36.25	31.21	67.68	84.36	88.20	-3.84 peak
2	7125.000	11.82	36.45	31.26	45.31	62.32	88.20	-25.88 peak
3	7158.143	11.85	36.52	31.28	47.57	64.66	88.20	-23.54 peak



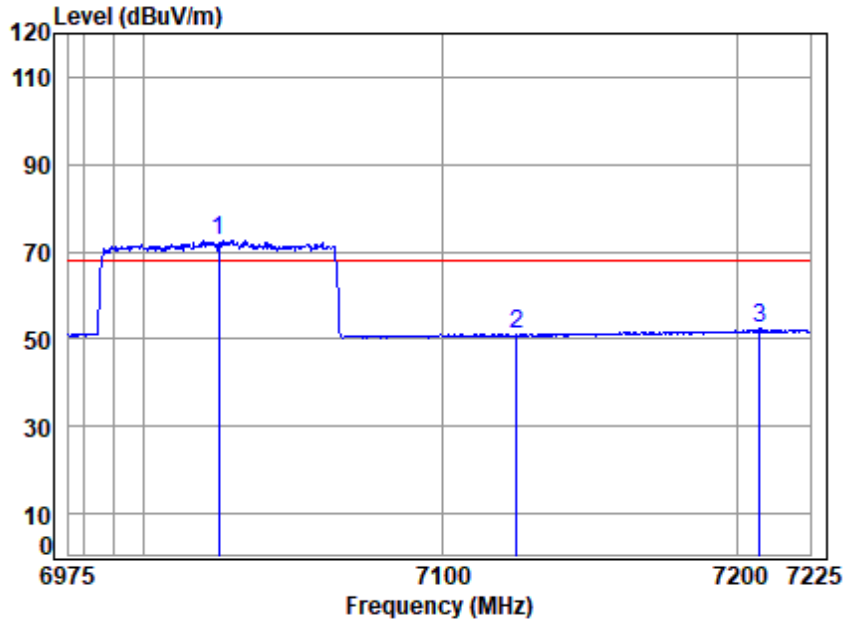
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Test Mode: 27; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 7025 Band edge

: Wi-Fi 6E 11AX80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	7025.000	11.64	36.25	31.21	55.83	72.51	68.20	4.31	Average
2	7125.000	11.82	36.45	31.26	33.90	50.91	68.20	-17.29	Average
3	7207.720	11.89	36.60	31.30	35.21	52.40	68.20	-15.80	Average



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7.5 In-Band Emissions

Test Requirement 47 CFR Part 15, Subpart E 15.407 (b)

Test Method: ANSI C63.10 (2020) Section 12.6

Test Engineer: Byron Liang

Limit:

For transmitters operating within the 5.925–7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and onehalf times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 27.2 °C

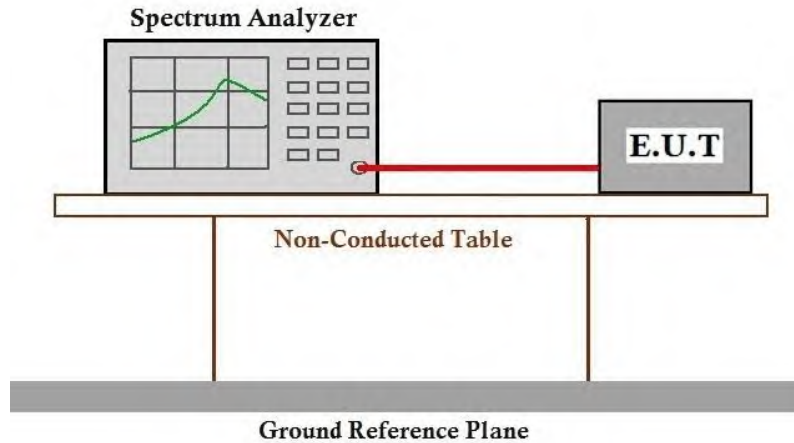
Humidity: 30.7 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	24	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	25	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	26	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	27	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 Contention-based Protocol

Test Requirement 47 CFR Part 15, Subpart E 15.407 (d)(6)

Test Method: KDB 987594 D02

Test Engineer:

Limit:

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 27.2 °C

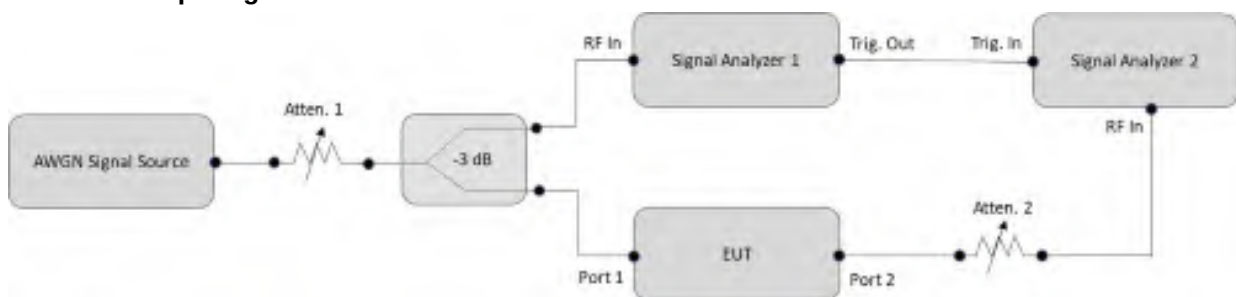
Humidity: 30.7 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	23	Normal operating_ Keep the EUT communication with the companion device.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Detection Level= Injected AWGN Power(dBm)- Antenna Gain(dBi)+ Path Loss(dB)

Please Refer to Appendix for Details

7.7 Duty Cycle

Test Requirement: ANSI C63.10 (2013) Section 12.2
 Test Method: ANSI C63.10 (2020) Section 12.2
 Test Engineer: Byron Liang

7.7.1 E.U.T. Operation

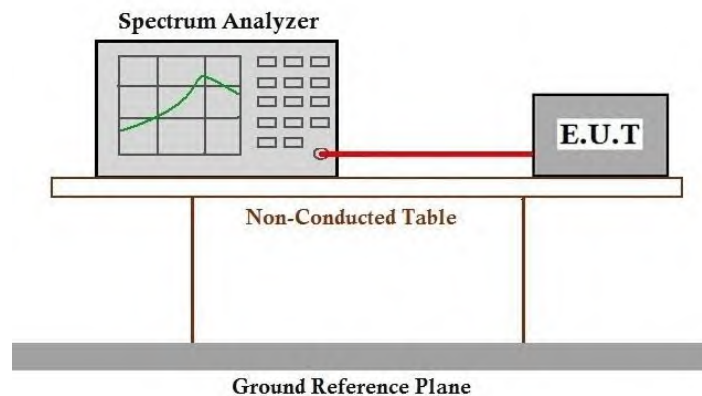
Operating Environment:

Temperature: 27.2 °C Humidity: 30.7 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	24	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	25	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	26	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	27	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.8 99% Bandwidth

Test Requirement: ANSI C63.10 (2013) Section 12.4.2
 Test Method: ANSI C63.10 (2020) Section 12.5.3
 Test Engineer: Byron Liang

7.8.1 E.U.T. Operation

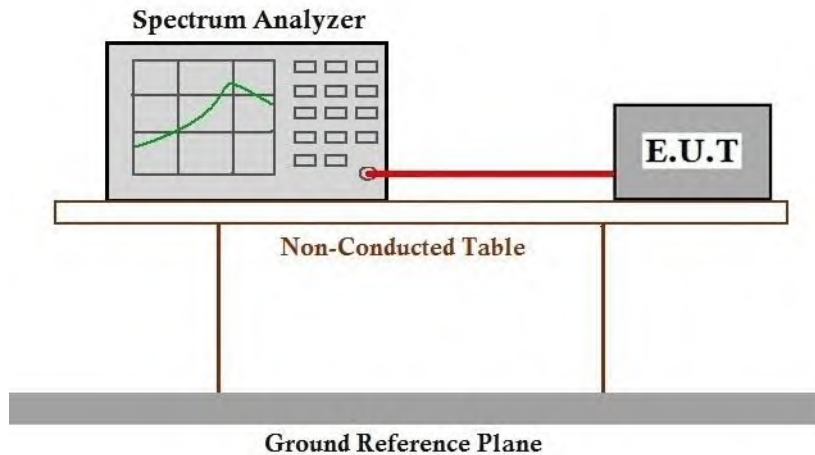
Operating Environment:

Temperature: 27.2 °C Humidity: 30.7 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	24	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	25	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	26	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	27	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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7.9 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.5.2

Test Engineer: Byron Liang

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 27.2 °C

Humidity: 30.7 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	24	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	25	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	26	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	27	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.



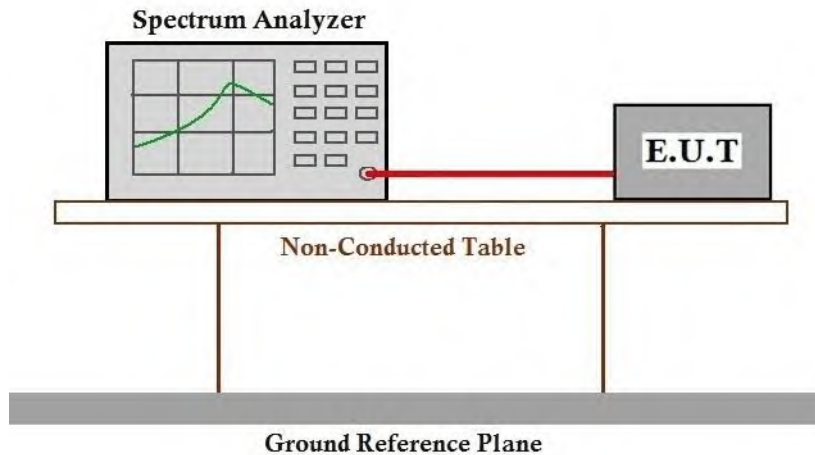
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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

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7.10 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.4

Test Engineer: Byron Liang

Limit:

Device Type	Frequency Range (MHz)	EIRP Limit (dBm)	EIRP PSD Limit(dBm/MHz)
LPI AP/ Subordinate	5925-7125	≤ 30	≤ 5
LPI Client Device And Dual Client controlled by LPI AP/ Subordinate	5925-7125	≤ 24	≤ -1
Dual Client controlled by Standard Power AP	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Standard Power AP And Fixed Client Devices	5925-6425; 6525-6875	≤ 36 (21dBm for elevation angle greater than 30 degrees above the horizon)	≤ 23
Standard Client Devices	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Very Low-Power Devices	5925-6425; 6525-6875	≤ 14	≤ -5 shall demonstrate the TPC capability to operate at least 6 dB below the maximum EIRP PSD value of -5 dBm/MHz.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 27.2 °C

Humidity: 30.7 % RH

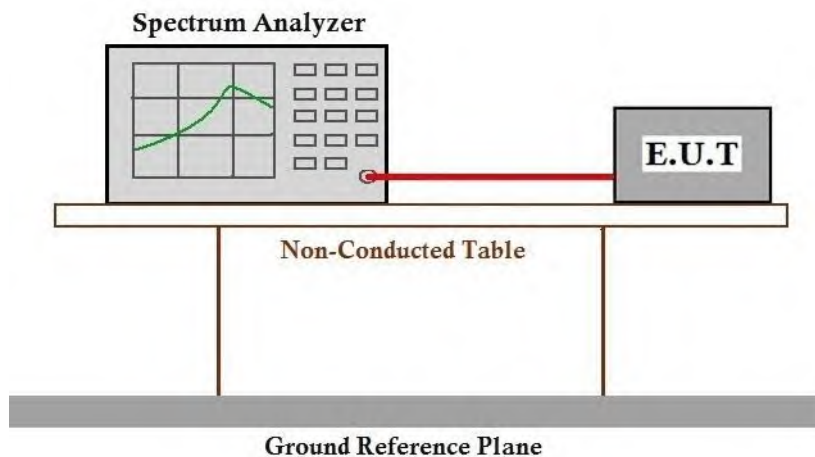
Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	24	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	25	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and

		found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	26	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	27	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

AV Output power Level = Reading level + Cable loss + DCCF

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7.11 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.6

Test Engineer: Byron Liang

Limit:

Device Type	Frequency Range (MHz)	EIRP Limit (dBm)	EIRP PSD Limit(dBm/MHz)
LPI AP/ Subordinate	5925-7125	≤ 30	≤ 5
LPI Client Device And Dual Client controlled by LPI AP/ Subordinate	5925-7125	≤ 24	≤ -1
Dual Client controlled by Standard Power AP	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Standard Power AP And Fixed Client Devices	5925-6425; 6525-6875	≤ 36 (21dBm for elevation angle greater than 30 degrees above the horizon)	≤ 23
Standard Client Devices	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Very Low-Power Devices	5925-6425; 6525-6875	≤ 14	≤ -5 shall demonstrate the TPC capability to operate at least 6 dB below the maximum EIRP PSD value of -5 dBm/MHz.

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 27.2 °C

Humidity: 30.7 % RH

Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	24	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	25	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and



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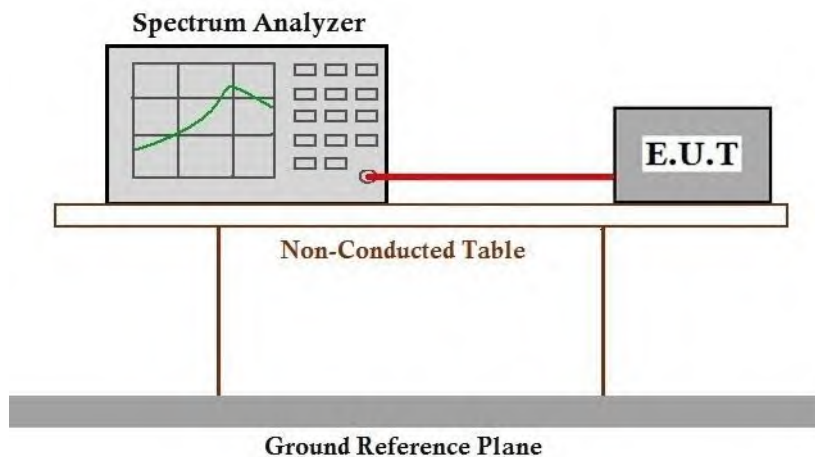
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		found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	26	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	27	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

RBW conversion factor from 300kHz to 500kHz (2.22dB) for UNII Band 3 has been considered.

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7.12 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2020) Section 6.8

Test Engineer: Byron Liang

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 27.2 °C

Humidity: 30.7 % RH

Atmospheric Pressure: 1020 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	24	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	25	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	26	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	27	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax/be 20/40/80/160, Only the data of worst case is recorded in the report.



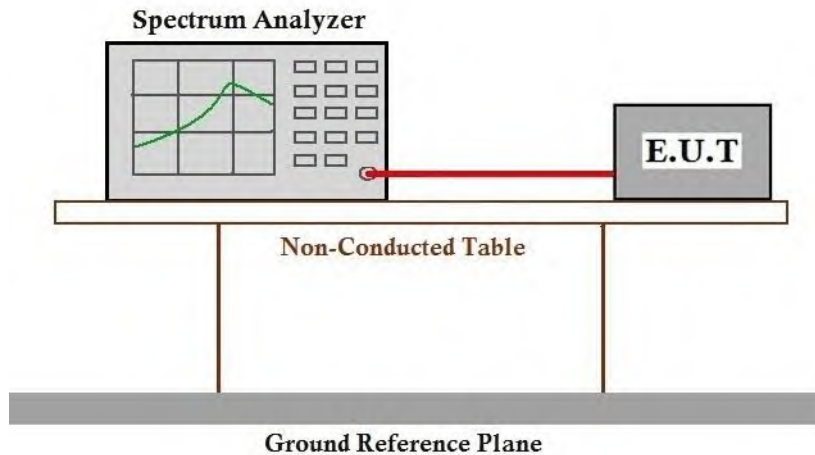
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7.12.3 Test Setup Diagram



7.12.4 Measurement Procedure and Data

Please Refer to Appendix for Details