

1 GHz to 18 GHz, ANT V 802.11ax40(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1220.877	43.92	74.0	30.08	Peak	66.00	300	Vertical	Pass
1**	1220.877	34.51	54.0	19.49	AV	66.00	300	Vertical	Pass
2	2183.257	49.27	74.0	24.73	Peak	167.00	100	Vertical	Pass
2**	2183.257	39.34	54.0	14.67	AV	167.00	100	Vertical	Pass
3	2974.219	54.06	74.0	19.94	Peak	33.00	200	Vertical	Pass
3**	2974.219	45.29	54.0	8.71	AV	33.00	200	Vertical	Pass
4	3794.995	47.25	74.0	26.75	Peak	236.00	200	Vertical	Pass
4**	3794.995	37.24	54.0	16.76	AV	236.00	200	Vertical	Pass
5	7531.922	54.40	74.0	19.60	Peak	127.00	200	Vertical	Pass
5**	7531.922	44.67	54.0	9.33	AV	127.00	200	Vertical	Pass
6	12235.138	49.66	74.0	24.34	Peak	14.00	300	Vertical	Pass
6**	12235.138	39.44	54.0	14.56	AV	14.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax40(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1371.347	45.03	74.0	28.97	Peak	167.00	200	Horizontal	Pass
1**	1371.347	34.89	54.0	19.11	AV	167.00	200	Horizontal	Pass
2	2755.047	52.91	74.0	21.09	Peak	175.00	400	Horizontal	Pass
2**	2755.047	42.79	54.0	11.21	AV	175.00	400	Horizontal	Pass
3	4982.910	49.28	74.0	24.72	Peak	197.00	200	Horizontal	Pass
3**	4982.910	41.72	54.0	12.28	AV	197.00	200	Horizontal	Pass
4	7901.280	55.07	74.0	18.93	Peak	6.00	200	Horizontal	Pass
4**	7901.280	45.24	54.0	8.76	AV	6.00	200	Horizontal	Pass
5	12385.797	49.51	74.0	24.49	Peak	74.00	100	Horizontal	Pass
5**	12385.797	39.46	54.0	14.54	AV	74.00	100	Horizontal	Pass
6	17352.584	52.17	74.0	21.83	Peak	271.00	300	Horizontal	Pass
6**	17352.584	42.93	54.0	11.07	AV	271.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax40(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1216.211	44.21	74.0	29.79	Peak	313.00	100	Vertical	Pass
1**	1216.211	34.72	54.0	19.28	AV	313.00	100	Vertical	Pass
2	2180.210	48.32	74.0	25.68	Peak	123.00	100	Vertical	Pass
2**	2180.210	39.82	54.0	14.19	AV	123.00	100	Vertical	Pass
3	2976.491	53.79	74.0	20.21	Peak	87.00	200	Vertical	Pass
3**	2976.491	44.96	54.0	9.04	AV	87.00	200	Vertical	Pass
4	3798.494	47.63	74.0	26.37	Peak	7.00	100	Vertical	Pass
4**	3798.494	37.14	54.0	16.86	AV	7.00	100	Vertical	Pass
5	7531.847	54.06	74.0	19.94	Peak	41.00	400	Vertical	Pass
5**	7531.847	44.23	54.0	9.77	AV	41.00	400	Vertical	Pass
6	12236.432	49.99	74.0	24.01	Peak	269.00	200	Vertical	Pass
6**	12236.432	40.02	54.0	13.98	AV	269.00	200	Vertical	Pass

A.7 Band Edge (Restricted-band band-edge)

Note¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note³: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note⁴: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note⁵: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

Test Data and Plots

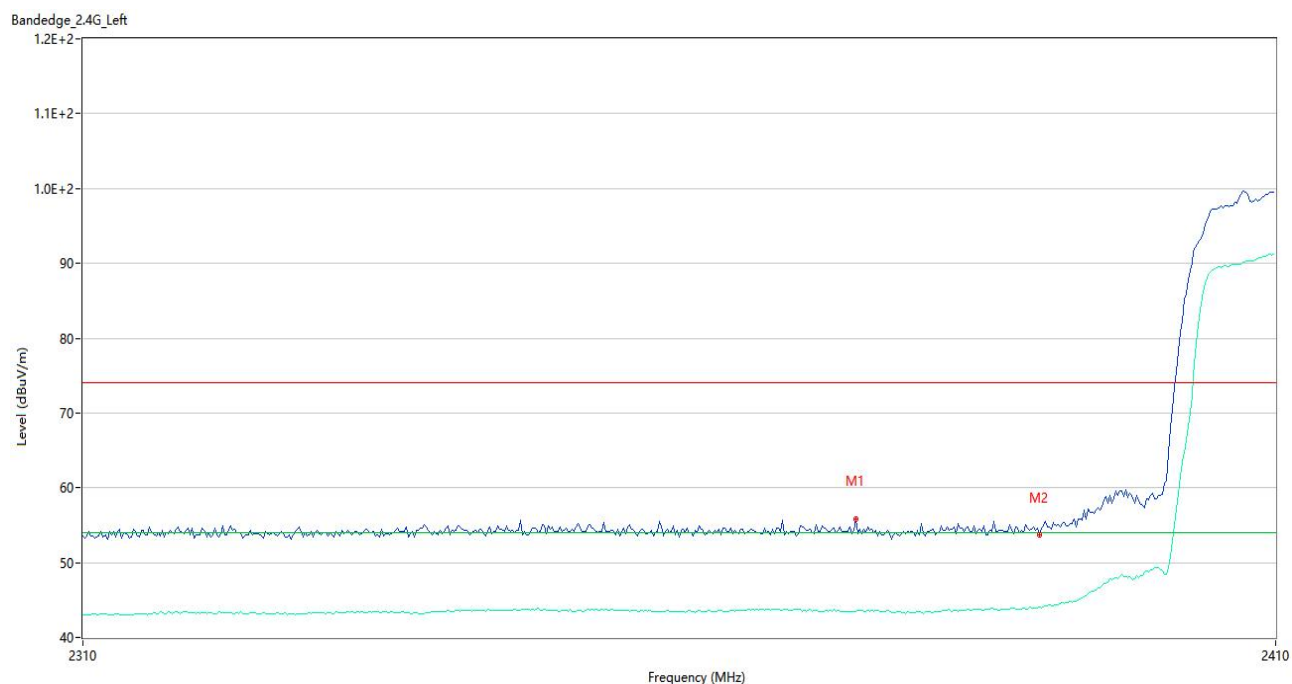
802.11b LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2374.102	55.64	74.0	18.36	Peak	262.00	300	Horizontal	Pass
1**	2374.102	42.53	54.0	11.47	AV	262.00	300	Horizontal	Pass
2	2390.000	53.65	74.0	20.35	Peak	269.00	200	Horizontal	Pass
2**	2390.000	43.93	54.0	10.07	AV	269.00	200	Horizontal	Pass

802.11b HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.24	74.0	19.76	Peak	42.00	100	Horizontal	Pass
1**	2483.500	43.64	54.0	10.36	AV	42.00	100	Horizontal	Pass
2	2495.939	55.57	74.0	18.43	Peak	33.00	100	Horizontal	Pass
2**	2495.939	42.83	54.0	11.17	AV	33.00	100	Horizontal	Pass

802.11g LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2334.800	55.27	74.0	18.73	Peak	88.00	200	Horizontal	Pass
1**	2334.800	42.98	54.0	11.02	AV	88.00	200	Horizontal	Pass
2	2390.000	55.61	74.0	18.39	Peak	278.00	300	Horizontal	Pass
2**	2390.000	44.90	54.0	9.10	AV	278.00	300	Horizontal	Pass

802.11g HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.99	74.0	19.01	Peak	280.00	300	Horizontal	Pass
1**	2483.500	44.81	54.0	9.19	AV	280.00	300	Horizontal	Pass
2	2485.432	56.06	74.0	17.94	Peak	69.00	200	Horizontal	Pass
2**	2485.432	44.86	54.0	9.14	AV	69.00	200	Horizontal	Pass

802.11n20 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.443	56.48	74.0	17.52	Peak	126.00	100	Horizontal	Pass
1**	2389.443	43.91	54.0	10.09	AV	126.00	100	Horizontal	Pass
2	2390.000	56.19	74.0	17.81	Peak	138.00	200	Horizontal	Pass
2**	2390.000	44.52	54.0	9.48	AV	138.00	200	Horizontal	Pass

802.11n20 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	59.75	74.0	14.25	Peak	254.00	100	Horizontal	Pass
1**	2483.500	44.56	54.0	9.44	AV	254.00	100	Horizontal	Pass
2	2484.388	58.58	74.0	15.42	Peak	101.00	300	Horizontal	Pass
2**	2484.388	44.00	54.0	10.00	AV	101.00	300	Horizontal	Pass

802.11n40 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2380.699	55.37	74.0	18.63	Peak	94.00	100	Horizontal	Pass
1**	2380.699	42.35	54.0	11.65	AV	94.00	100	Horizontal	Pass
2	2390.000	54.37	74.0	19.63	Peak	33.00	300	Horizontal	Pass
2**	2390.000	43.66	54.0	10.34	AV	33.00	300	Horizontal	Pass

802.11n40 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	61.33	74.0	12.67	Peak	69.00	300	Horizontal	Pass
1**	2483.500	44.41	54.0	9.59	AV	69.00	300	Horizontal	Pass
2	2484.614	60.54	74.0	13.46	Peak	56.00	200	Horizontal	Pass
2**	2484.614	44.71	54.0	9.29	AV	56.00	200	Horizontal	Pass

802.11ax20(SU) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2380.700	56.53	74.0	17.47	Peak	141.00	100	Horizontal	Pass
1**	2380.700	44.38	54.0	9.62	AV	141.00	100	Horizontal	Pass
2	2390.000	56.21	74.0	17.79	Peak	112.00	100	Horizontal	Pass
2**	2390.000	44.23	54.0	9.77	AV	112.00	100	Horizontal	Pass

802.11ax20(SU) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	59.66	74.0	14.34	Peak	116.00	100	Horizontal	Pass
1**	2483.500	44.18	54.0	9.82	AV	116.00	100	Horizontal	Pass
2	2484.784	59.19	74.0	14.81	Peak	89.00	100	Horizontal	Pass
2**	2484.784	44.21	54.0	9.79	AV	89.00	100	Horizontal	Pass

802.11ax40(SU) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2380.275	55.45	74.0	18.55	Peak	190.00	100	Horizontal	Pass
1**	2380.275	42.08	54.0	11.92	AV	190.00	100	Horizontal	Pass
2	2390.000	54.21	74.0	19.79	Peak	166.00	200	Horizontal	Pass
2**	2390.000	43.58	54.0	10.42	AV	166.00	200	Horizontal	Pass

802.11ax40(SU) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	58.97	74.0	15.03	Peak	188.00	100	Horizontal	Pass
1**	2483.500	44.77	54.0	9.23	AV	188.00	100	Horizontal	Pass
2	2484.322	59.56	74.0	14.44	Peak	44.00	100	Horizontal	Pass
2**	2484.322	44.69	54.0	9.31	AV	44.00	100	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Note: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.703	8
Middle	-15.771	8
High	-15.118	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.218	8
Middle	-14.456	8
High	-14.726	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.032	8
Middle	-14.487	8
High	-14.225	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-17.213	8
Middle	-17.382	8
High	-17.402	8

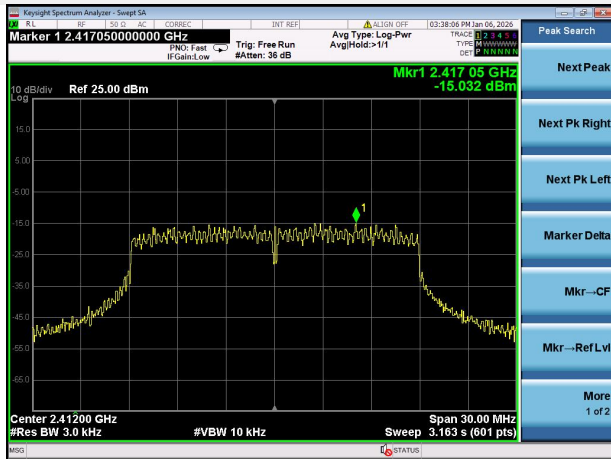
802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.075	8
Middle	-13.944	8
High	-13.612	8

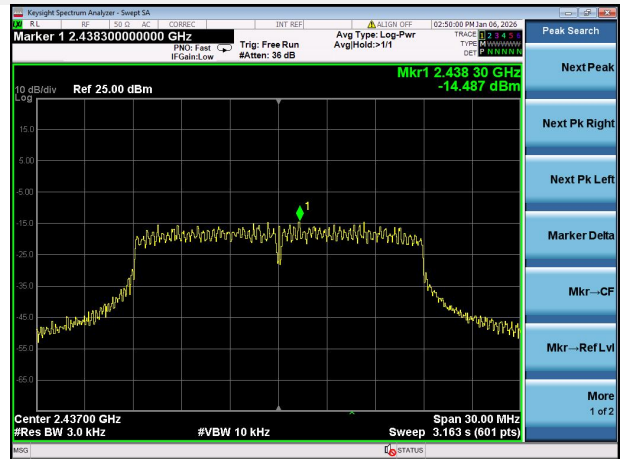
802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.237	8
Middle	-16.227	8
High	-16.958	8

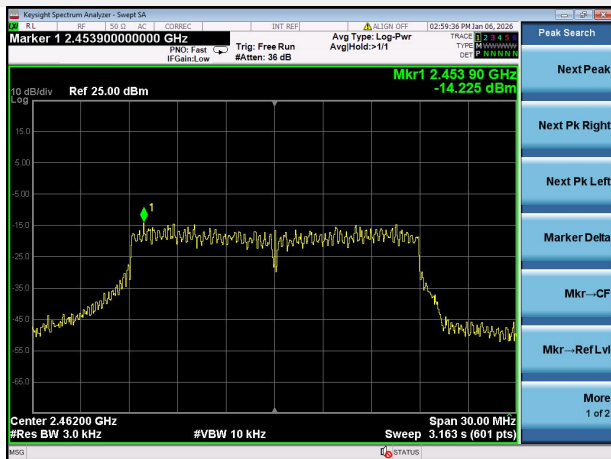
802.11n-20 MHz LOW CHANNEL



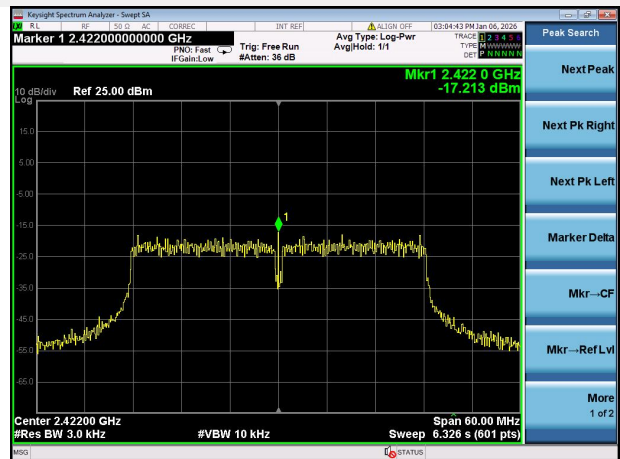
802.11n-20 MHz MIDDLE CHANNEL



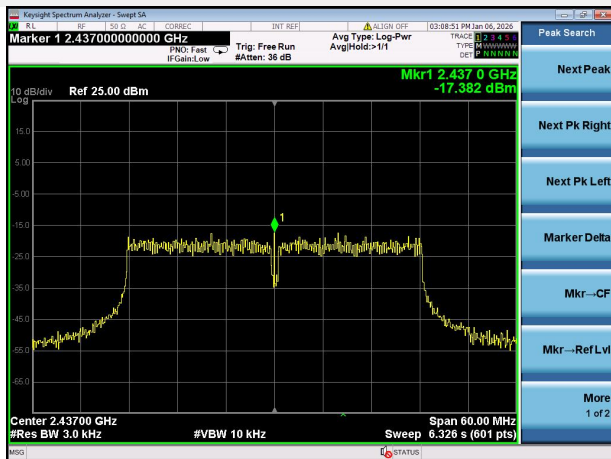
802.11n-20 MHz HIGH CHANNEL



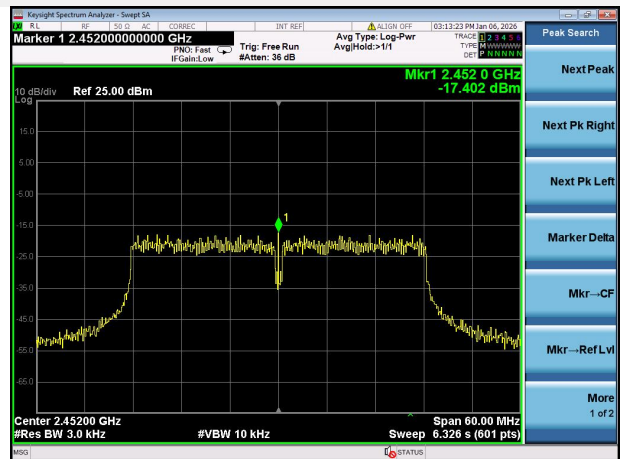
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



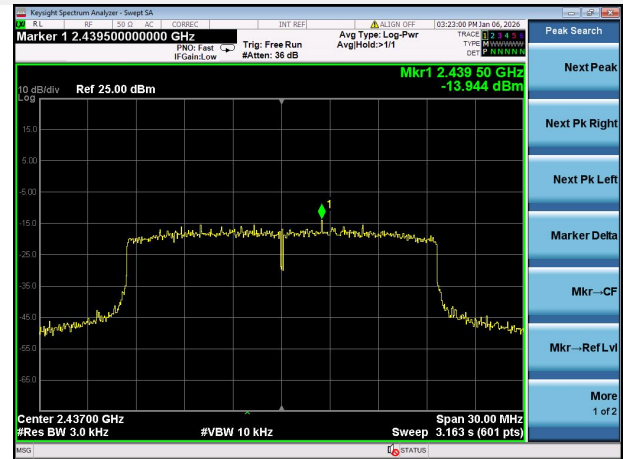
802.11n-40 MHz HIGH CHANNEL



802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



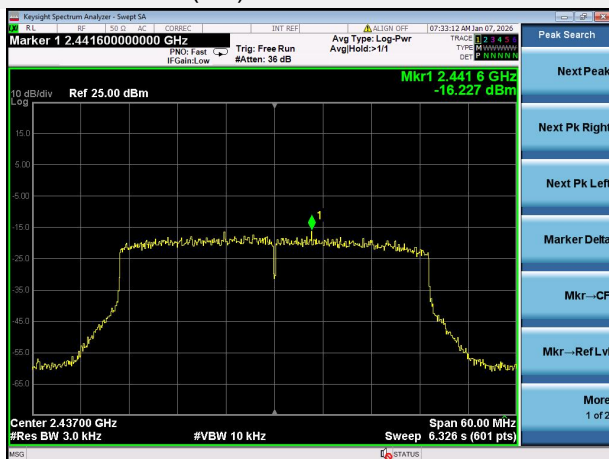
802.11ax-20 MHz(SU) HIGH CHANNEL



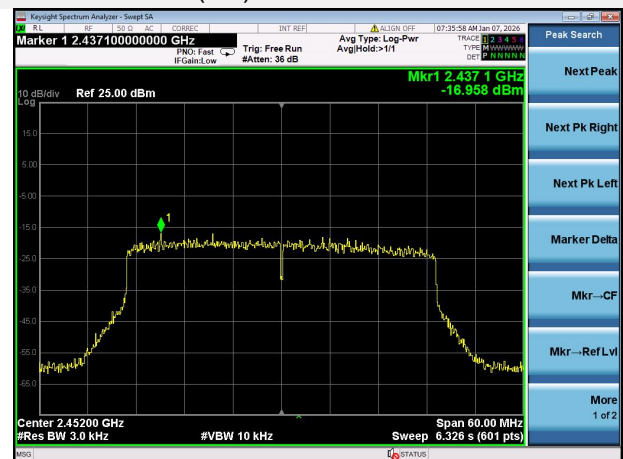
802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ25C0192-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ25C0192-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ25C0192-AI.PDF”.

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