

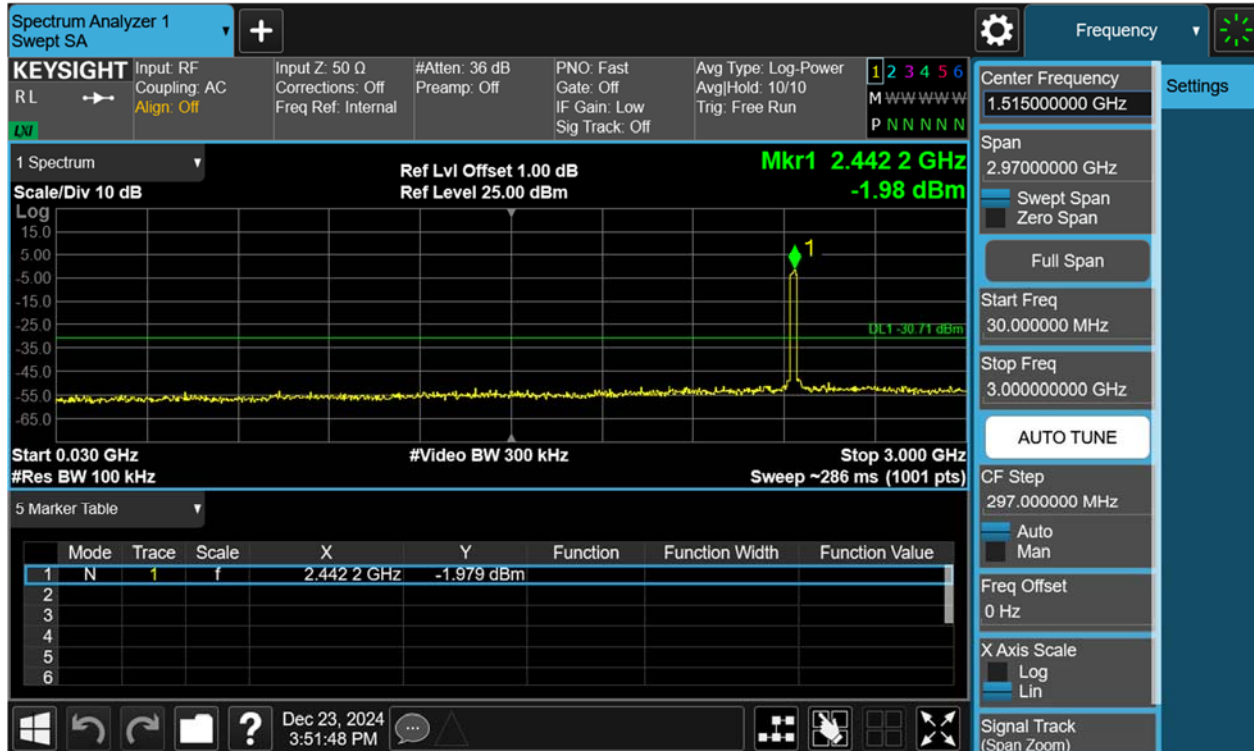
TEST REPORT

Report No.: SHE24110067-02FE

Date: 2025-02-19

Page 71 of 104

Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE24110067-02FE

Date: 2025-02-19

Page 72 of 104

Figure 66: Conducted Spurious Emission & Authorized-band band-edge, 802.11ax(HE20), 2462MHz Carrier Level



Band Edge



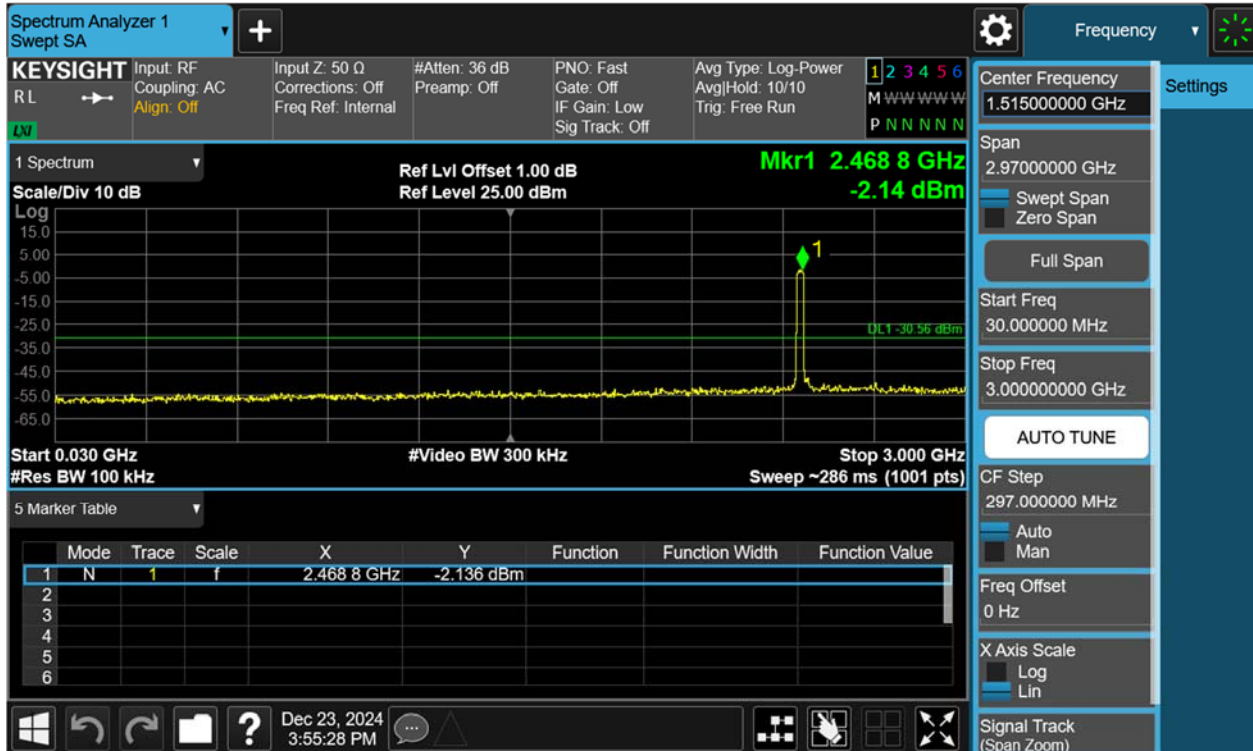
TEST REPORT

Report No.: SHE24110067-02FE

Date: 2025-02-19

Page 73 of 104

Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE24110067-02FE

Date: 2025-02-19

Page 74 of 104

Figure 67: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2422MHz Carrier Level



Band Edge



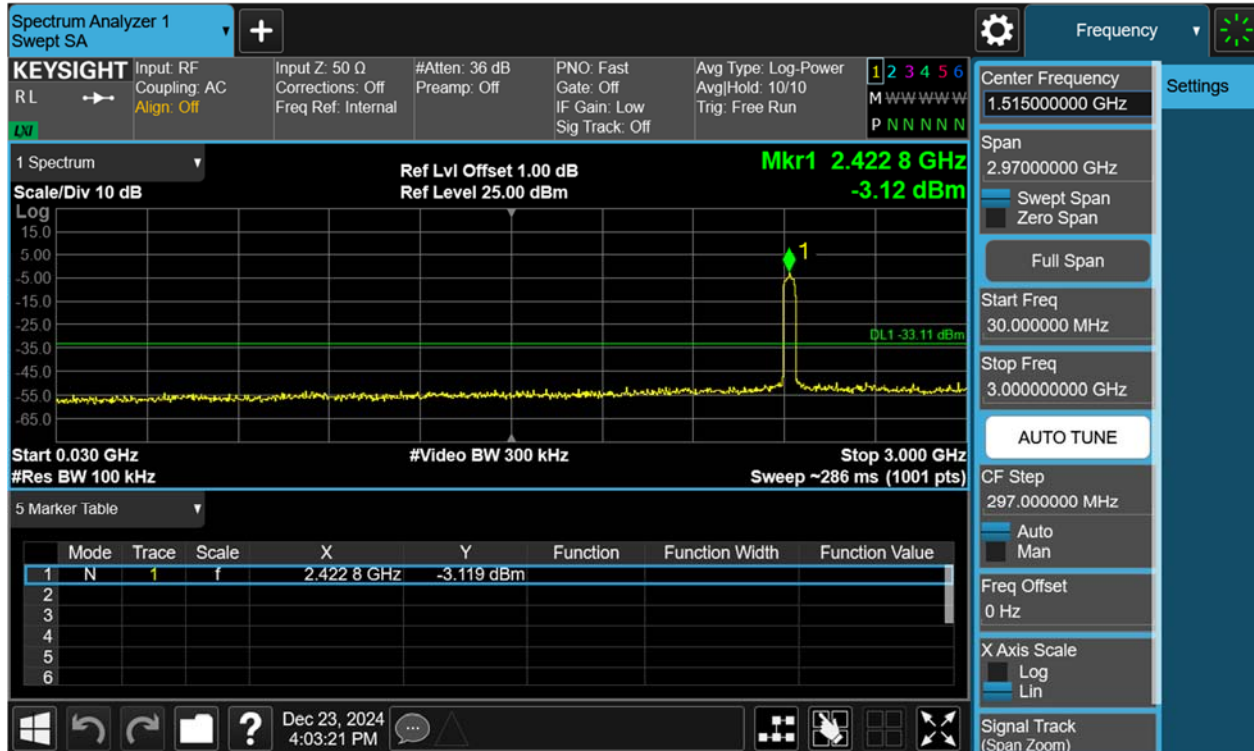
TEST REPORT

Report No.: SHE24110067-02FE

Date: 2025-02-19

Page 75 of 104

Conducted spurious emissions 30MHz-25GHz



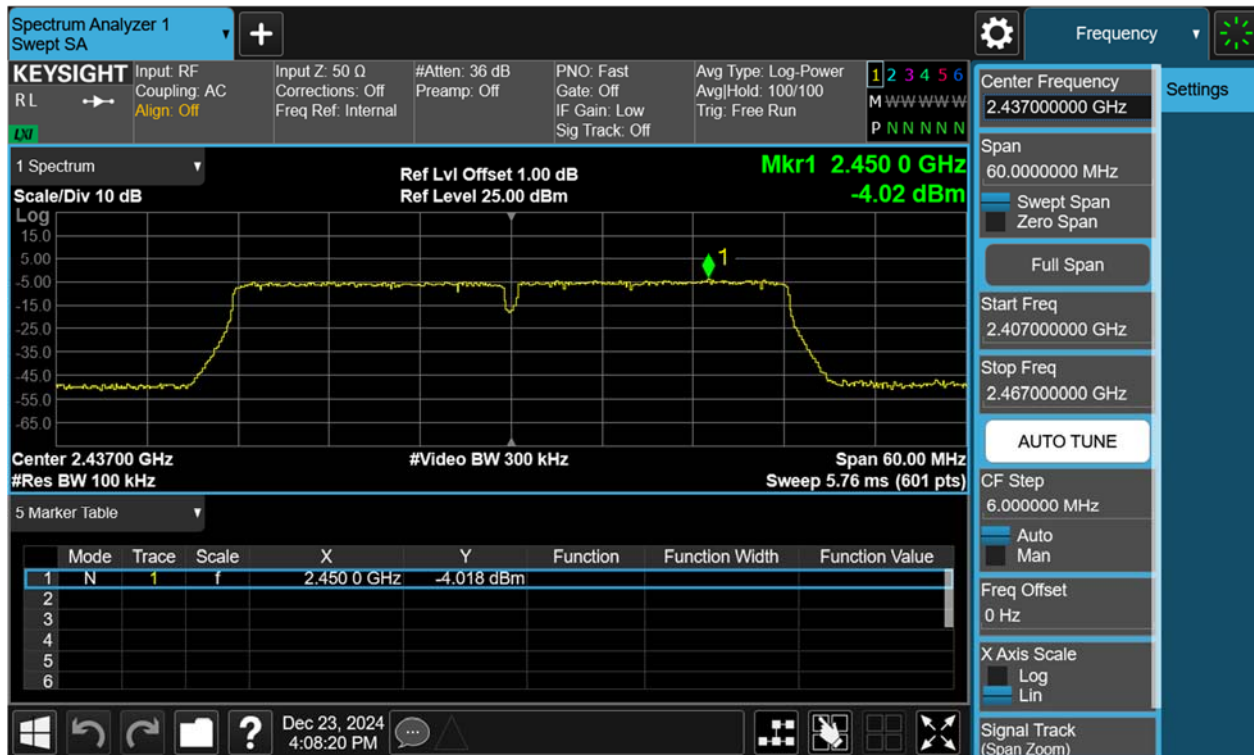
TEST REPORT

Report No.: SHE24110067-02FE

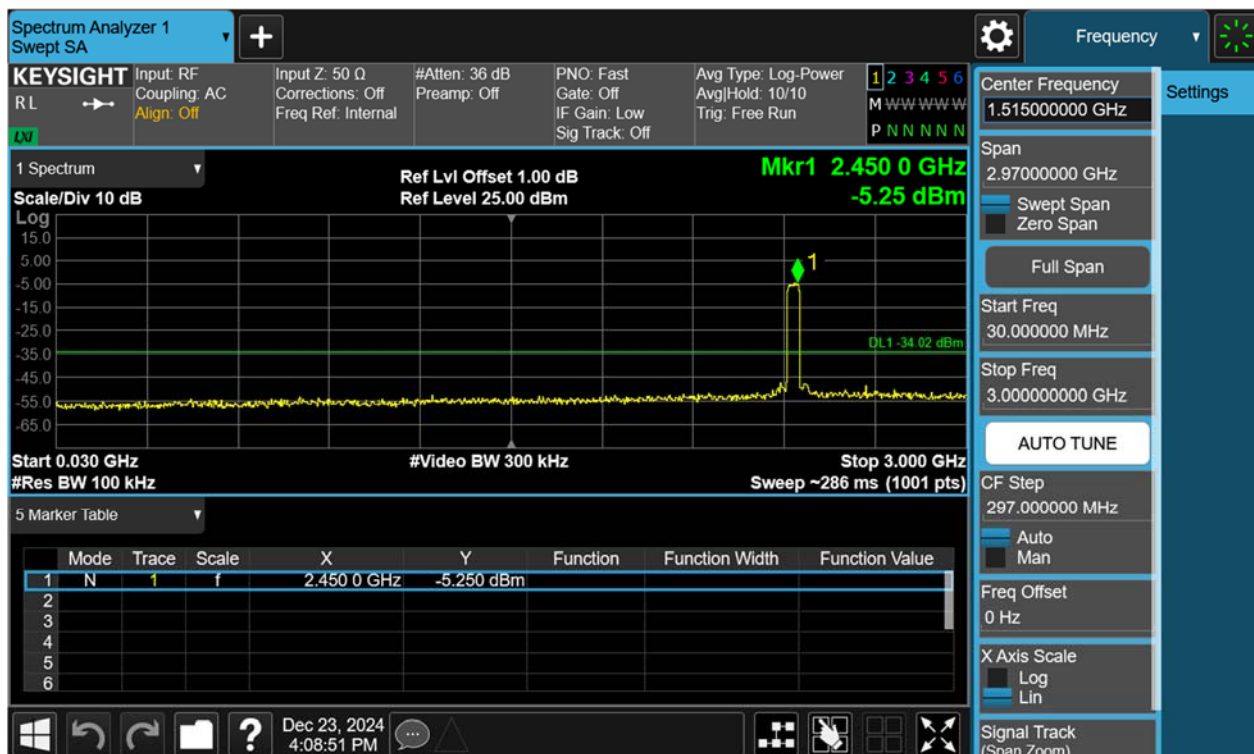
Date: 2025-02-19

Page 76 of 104

Figure 68: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE24110067-02FE

Date: 2025-02-19

Page 77 of 104



Figure 69: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2452MHz Carrier Level



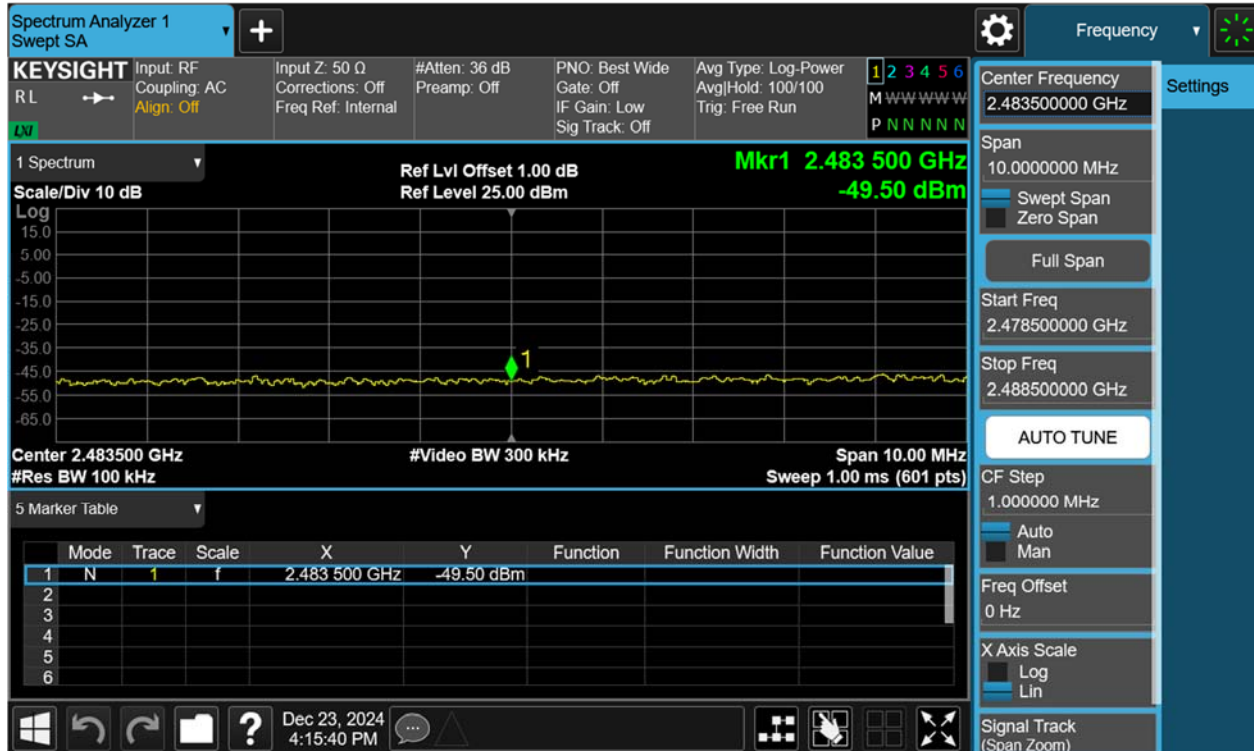
TEST REPORT

Report No.: SHE24110067-02FE

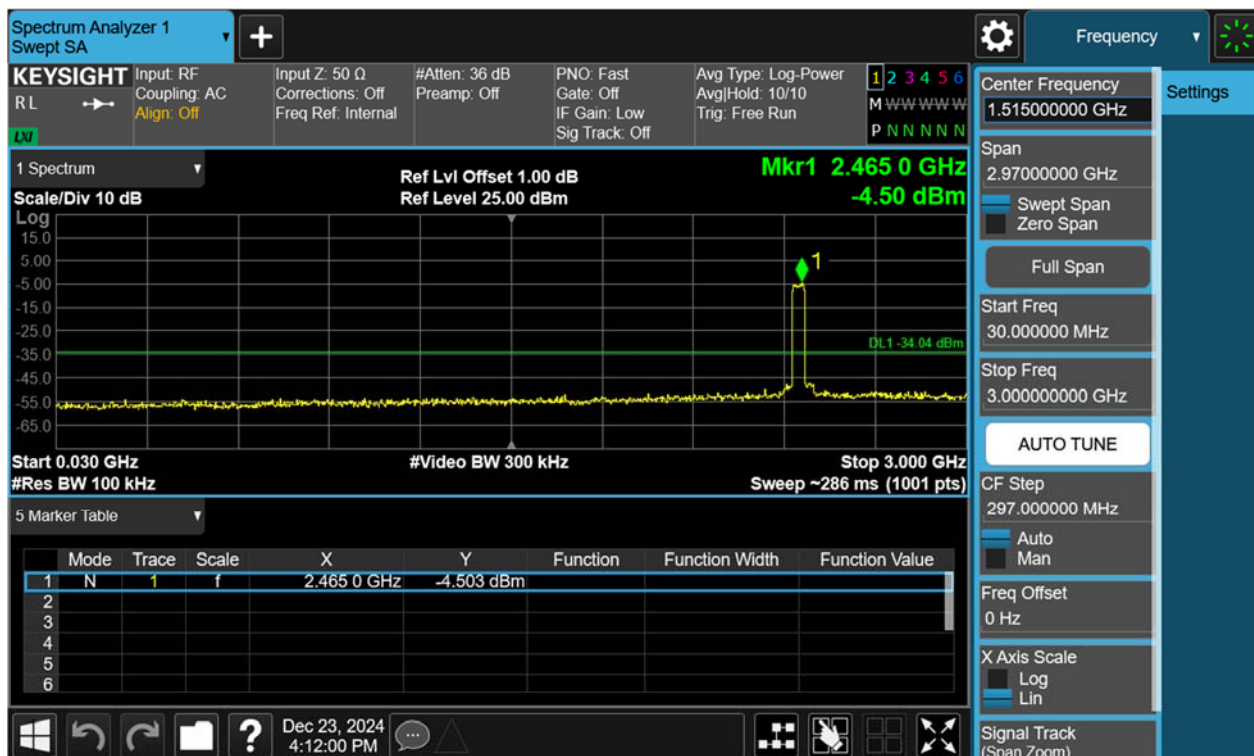
Date: 2025-02-19

Page 78 of 104

Band Edge



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE24110067-02FE

Date: 2025-02-19

Page 79 of 104



Figure 70: Conducted Spurious Emission & Authorized-band band-edge, 802.11ax(HE40), 2422MHz Carrier Level



TEST REPORT

Report No.: SHE24110067-02FE

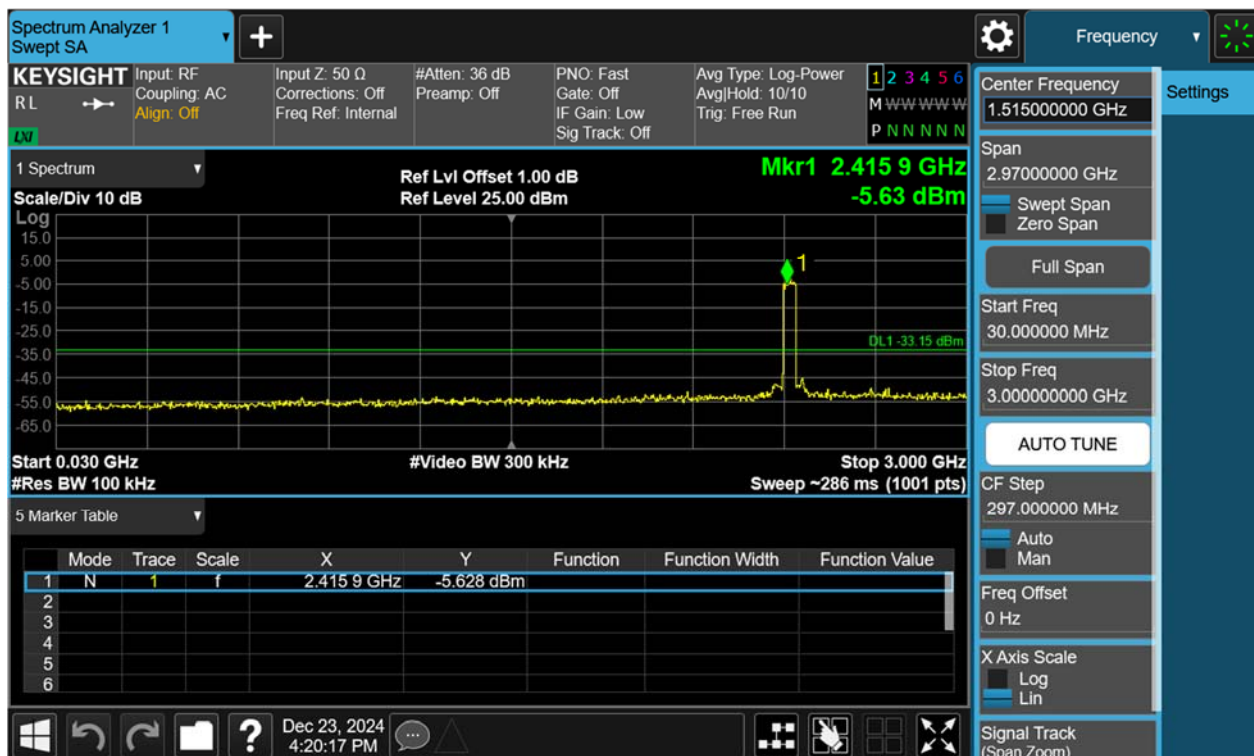
Date: 2025-02-19

Page 80 of 104

Band Edge



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

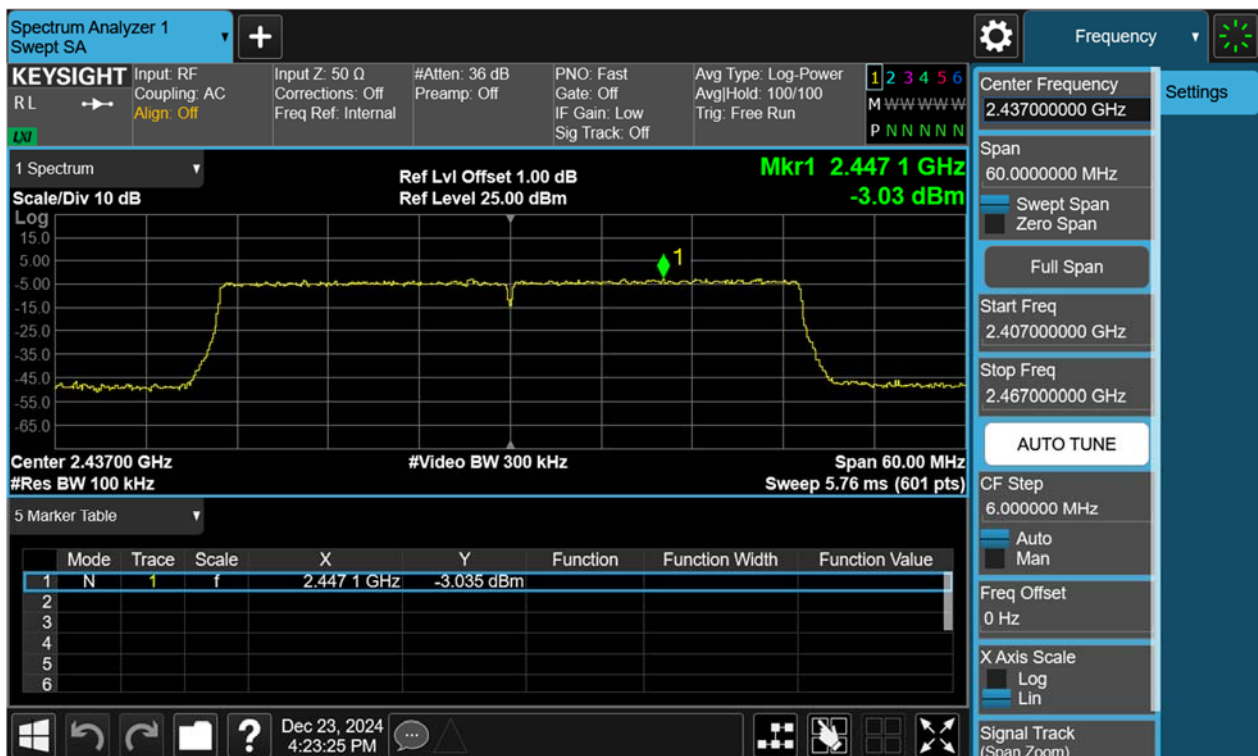
Report No.: SHE24110067-02FE

Date: 2025-02-19

Page 81 of 104



Figure 71: Conducted Spurious Emission & Authorized-band band-edge, 802.11ax(HE40), 2437MHz Carrier Level



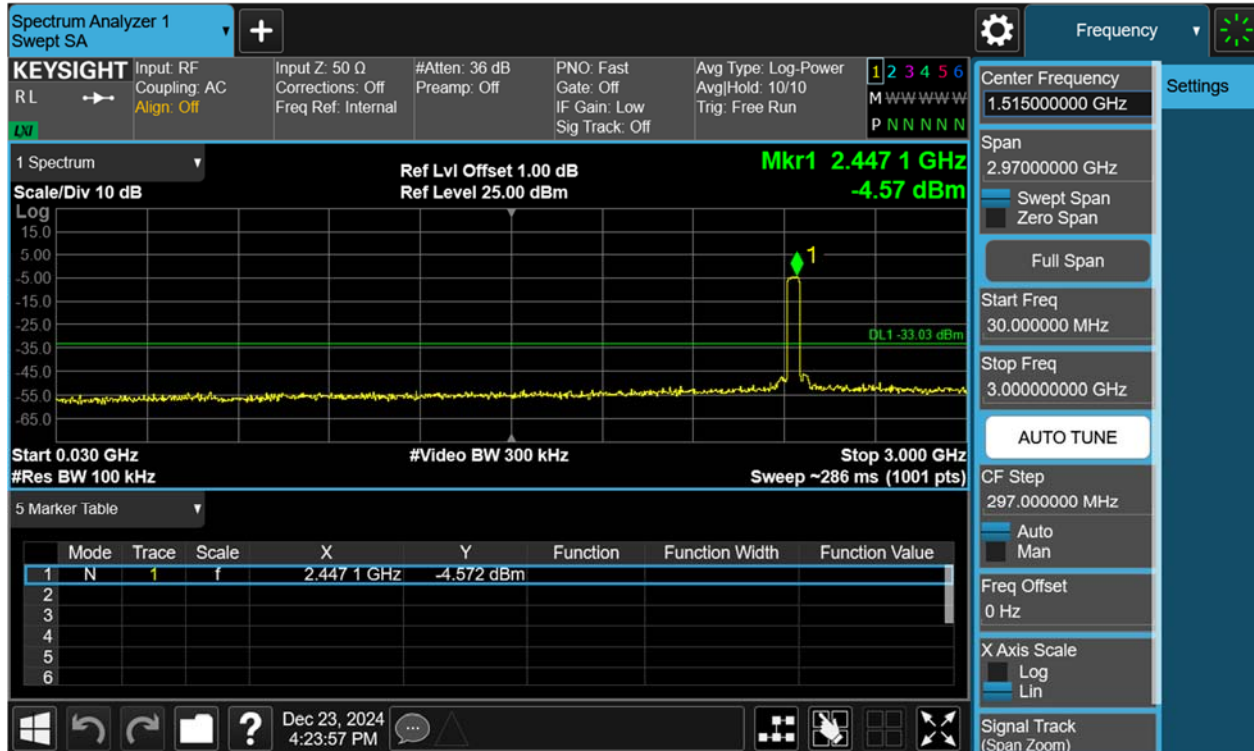
TEST REPORT

Report No.: SHE24110067-02FE

Date: 2025-02-19

Page 82 of 104

Conducted spurious emissions 30MHz-25GHz



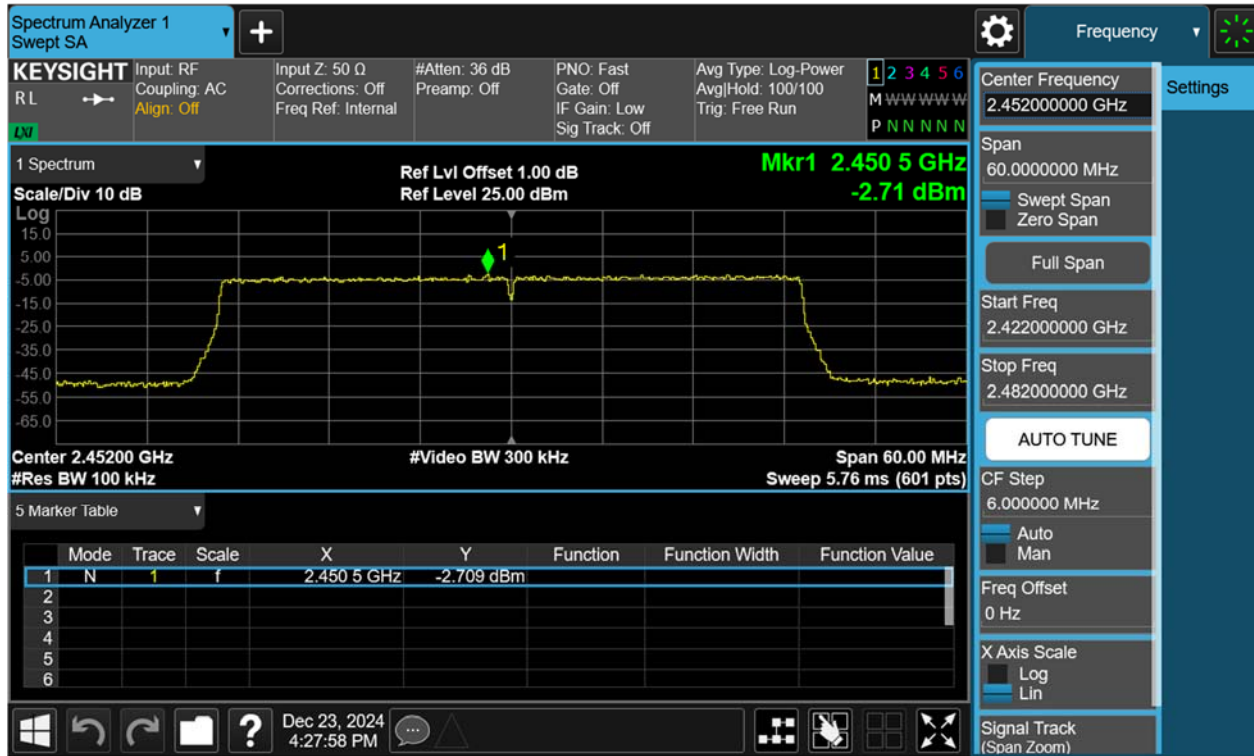
TEST REPORT

Report No.: SHE24110067-02FE

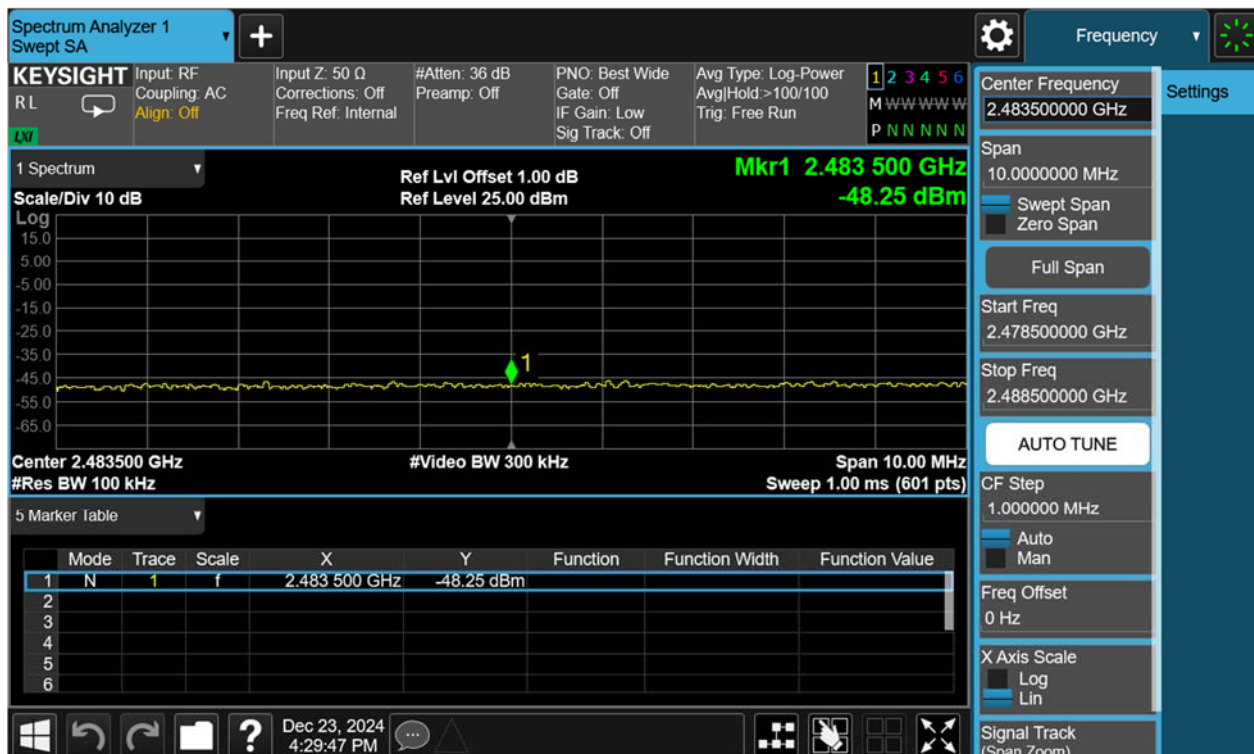
Date: 2025-02-19

Page 83 of 104

Figure 72: Conducted Spurious Emission & Authorized-band band-edge, 802.11ax(HE40), 2452MHz Carrier Level



Band Edge



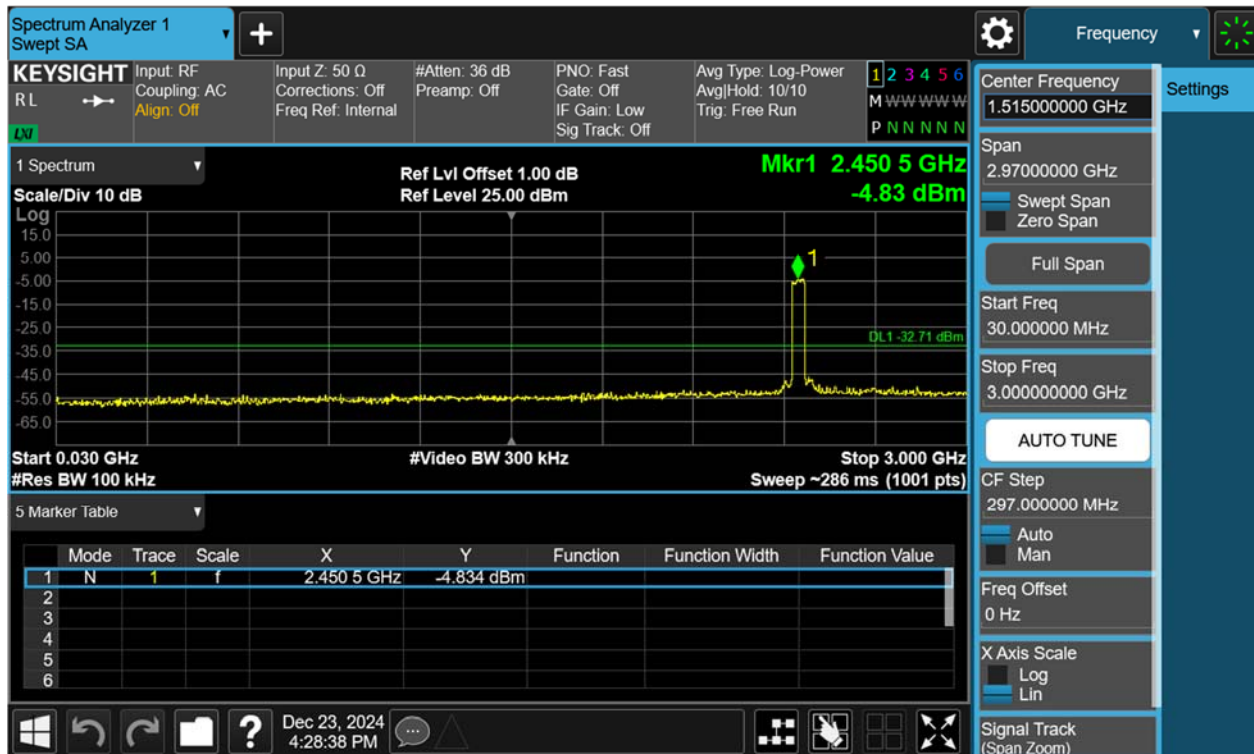
TEST REPORT

Report No.: SHE24110067-02FE

Date: 2025-02-19

Page 84 of 104

Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE24110067-02FE

Date: 2025-02-19

Page 85 of 104

4.1.6 Radiated Emission

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.205, 15.209
Requirement	: ANSI C63.10-2013, Clause 11.12 KDB 558074 D01 v05r02, Clause 8.6
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A.1.a
Ambient temperature	: 25.1°C
Relative humidity	: 47%

Notes

Test plots please refer to the annex document "SHE24110067-02FE DATA WIFI 2.4GHz-TX EXHIBIT A".

1. For 9 kHz ~ 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported.
2. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.
3. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.
4. All antenna (SISO and MIMO) had been tested, The 802.11b/g of antenna 1 and the 802.11n/ax of MIMO mode are the worst case and record in the test report.
5. Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Results-Limit.

TEST REPORT

Report No.: SHE24110067-02FE

Date: 2025-02-19

Page 86 of 104

4.1.7 Band Edge (Restricted-band band-edge)

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.205, 15.209
Requirement	: ANSI C63.10-2013, Clause 11.13 KDB 558074 D01 v05r02, Clause 8.7
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/High
Operation Mode	: A.1.a
Ambient temperature	: 25.1°C
Relative humidity	: 47%

Notes:

Test plots please refer to the annex document "SHE24110067-02FE DATA WIFI 2.4GHz-TX EXHIBIT A".

TEST REPORT

Report No.: SHE24110067-02FE

Date: 2025-02-19

Page 87 of 104

4.2 Mains Emissions

4.2.1 Conducted Emission on AC Mains

RESULT:

PASS

Test standard	: FCC Part 15.207(a)
Requirement	: ANSI C63.10-2013 clause 6.2
Kind of test site	: Shielded room

Test setup

Input Voltage	: which received AC 120V, 60Hz Power
Operation Mode	: A.1.a
Earthing	: Disconnected to GND
Ambient temperature	: 21.6°C
Relative humidity	: 49%

For details refer to following test plot.

TEST REPORT

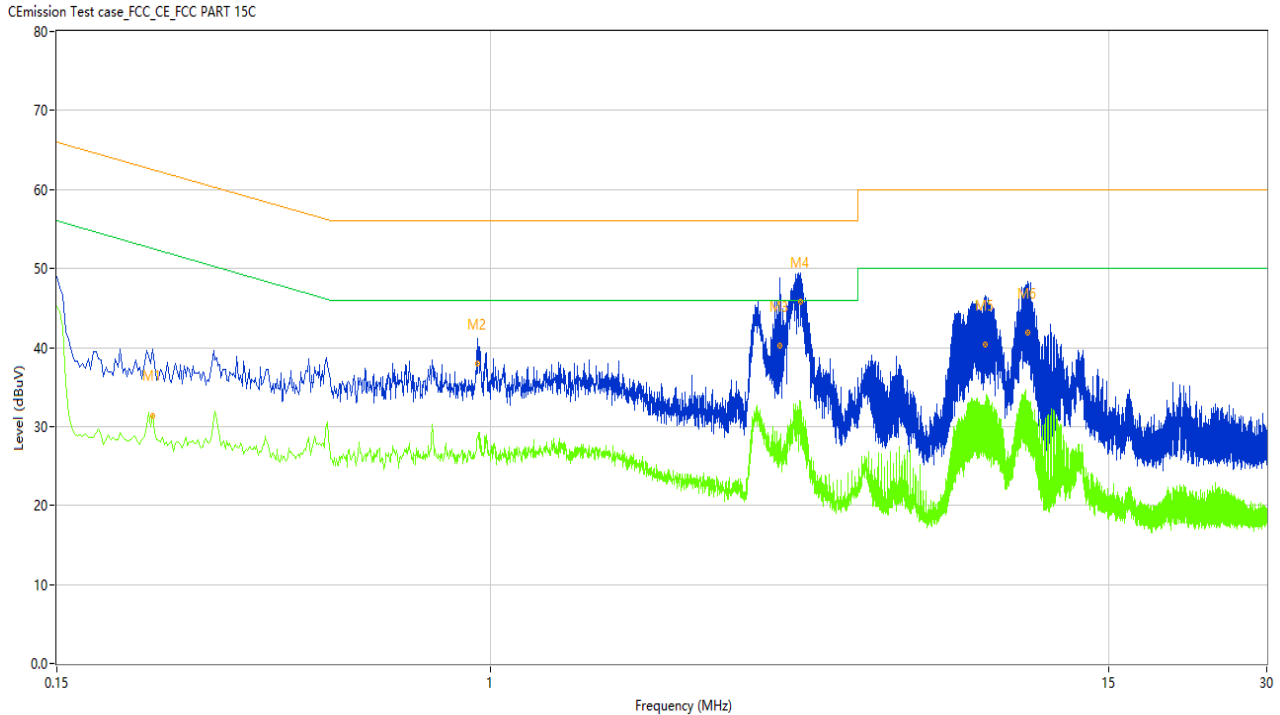
Report No.: SHE24110067-02FE

Date: 2025-02-19

Page 88 of 104

Note: The all configurations were tested respectively, but only the worst configuration shown here.

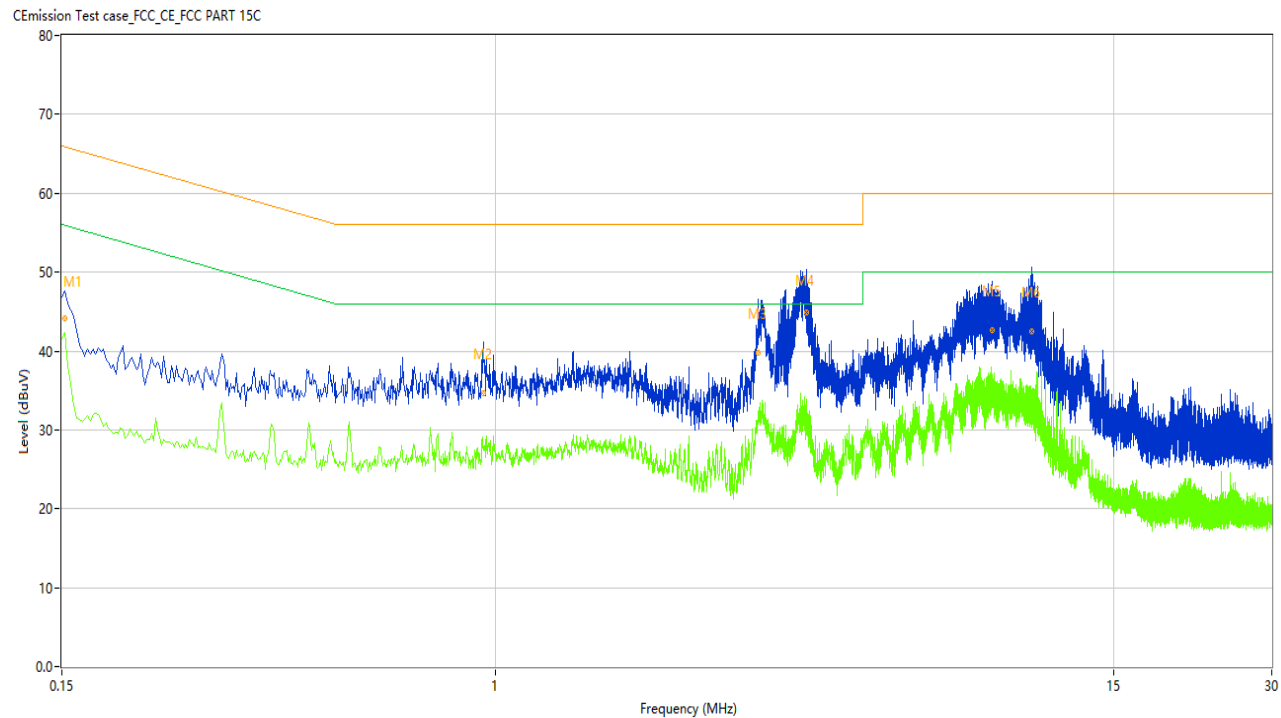
Figure 93: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.228	37.56	10.16	62.52	24.96	Peak	L	Pass
1*	0.228	31.37	10.16	62.52	31.15	QP	L	Pass
1**	0.228	31.60	10.16	52.52	20.92	AV	L	Pass
2	0.948	43.97	9.98	56.00	12.03	Peak	L	Pass
2*	0.948	37.95	9.98	56.00	18.05	QP	L	Pass
2**	0.948	28.72	9.98	46.00	17.28	AV	L	Pass
3	3.550	48.90	10.08	56.00	7.10	Peak	L	Pass
3*	3.550	40.16	10.08	56.00	15.84	QP	L	Pass
3**	3.550	26.98	10.08	46.00	19.02	AV	L	Pass
4	3.892	50.16	10.06	56.00	5.84	Peak	L	Pass
4*	3.892	45.80	10.06	56.00	10.20	QP	L	Pass
4**	3.892	33.21	10.06	46.00	12.79	AV	L	Pass
5	8.758	47.09	10.24	60.00	12.91	Peak	L	Pass
5*	8.758	40.32	10.24	60.00	19.68	QP	L	Pass
5**	8.758	33.07	10.24	50.00	16.93	AV	L	Pass
6	10.522	49.36	10.28	60.00	10.64	Peak	L	Pass
6*	10.522	41.92	10.28	60.00	18.08	QP	L	Pass
6**	10.522	32.43	10.28	50.00	17.57	AV	L	Pass

TEST REPORT

Figure 94: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	47.12	10.11	65.89	18.77	Peak	N	Pass
1*	0.152	44.17	10.11	65.89	21.72	QP	N	Pass
1**	0.152	42.32	10.11	55.89	13.57	AV	N	Pass
2	0.950	42.39	9.97	56.00	13.61	Peak	N	Pass
2*	0.950	34.58	9.97	56.00	21.42	QP	N	Pass
2**	0.950	27.88	9.97	46.00	18.12	AV	N	Pass
3	3.168	45.96	10.09	56.00	10.04	Peak	N	Pass
3*	3.168	39.77	10.09	56.00	16.23	QP	N	Pass
3**	3.168	31.65	10.09	46.00	14.35	AV	N	Pass
4	3.906	50.64	10.06	56.00	5.36	Peak	N	Pass
4*	3.906	44.82	10.06	56.00	11.18	QP	N	Pass
4**	3.906	33.86	10.06	46.00	12.14	AV	N	Pass
5	8.810	50.00	10.24	60.00	10.00	Peak	N	Pass
5*	8.810	42.61	10.24	60.00	17.39	QP	N	Pass
5**	8.810	37.00	10.24	50.00	13.00	AV	N	Pass
6	10.494	50.51	10.28	60.00	9.49	Peak	N	Pass
6*	10.494	42.49	10.28	60.00	17.51	QP	N	Pass
6**	10.494	33.35	10.28	50.00	16.65	AV	N	Pass