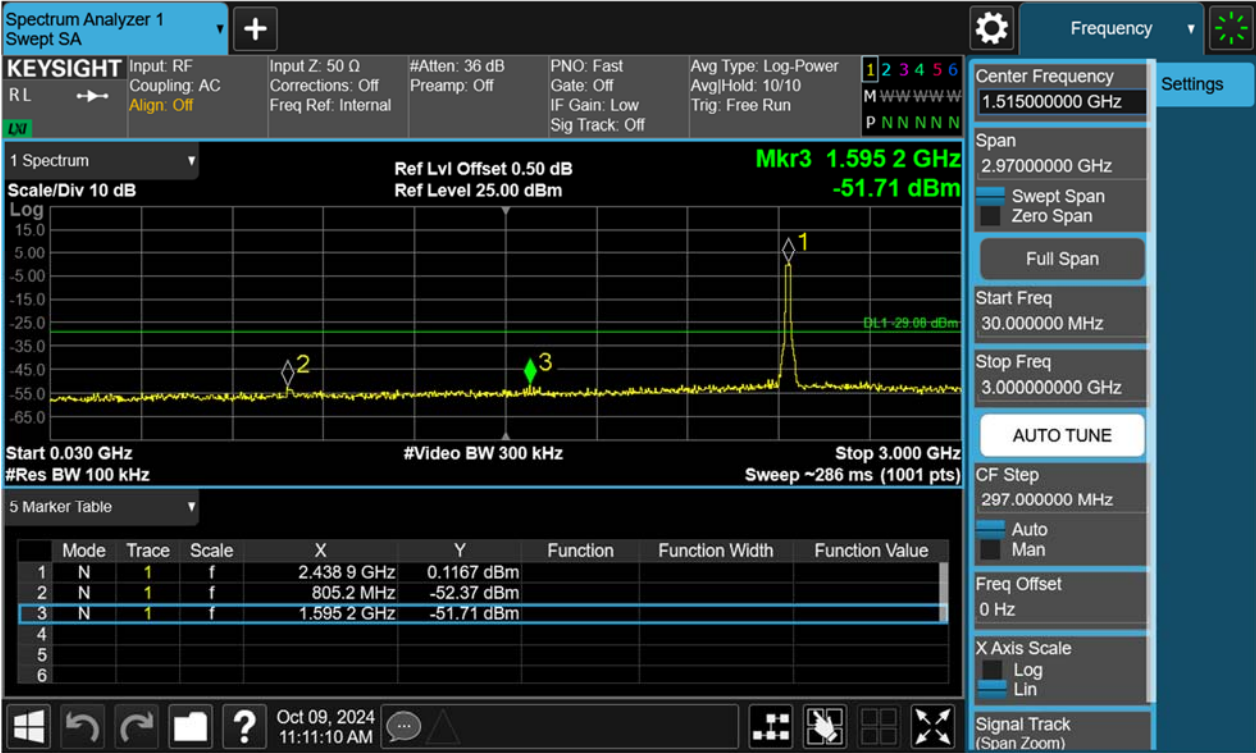


TEST REPORT

Report No.: SHE24090019-02CE Date: 2024-10-29 Page 36 of 68

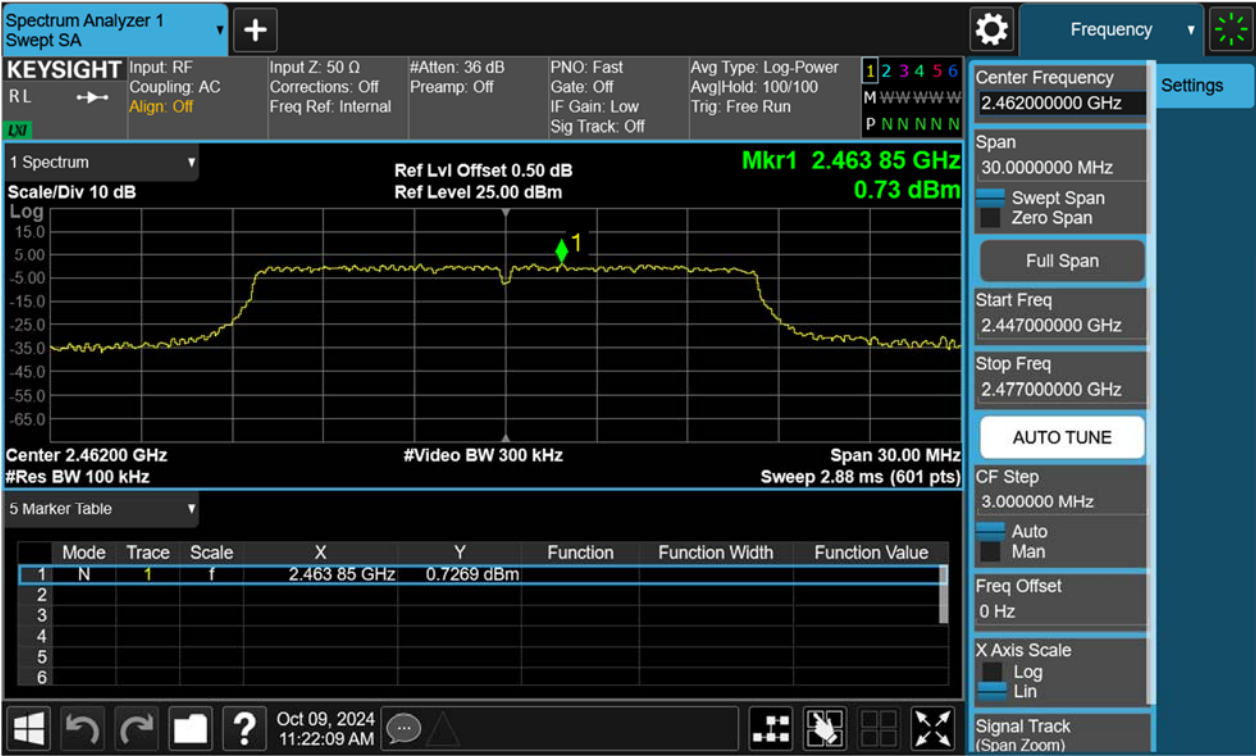
Conducted spurious emissions 30MHz-25GHz



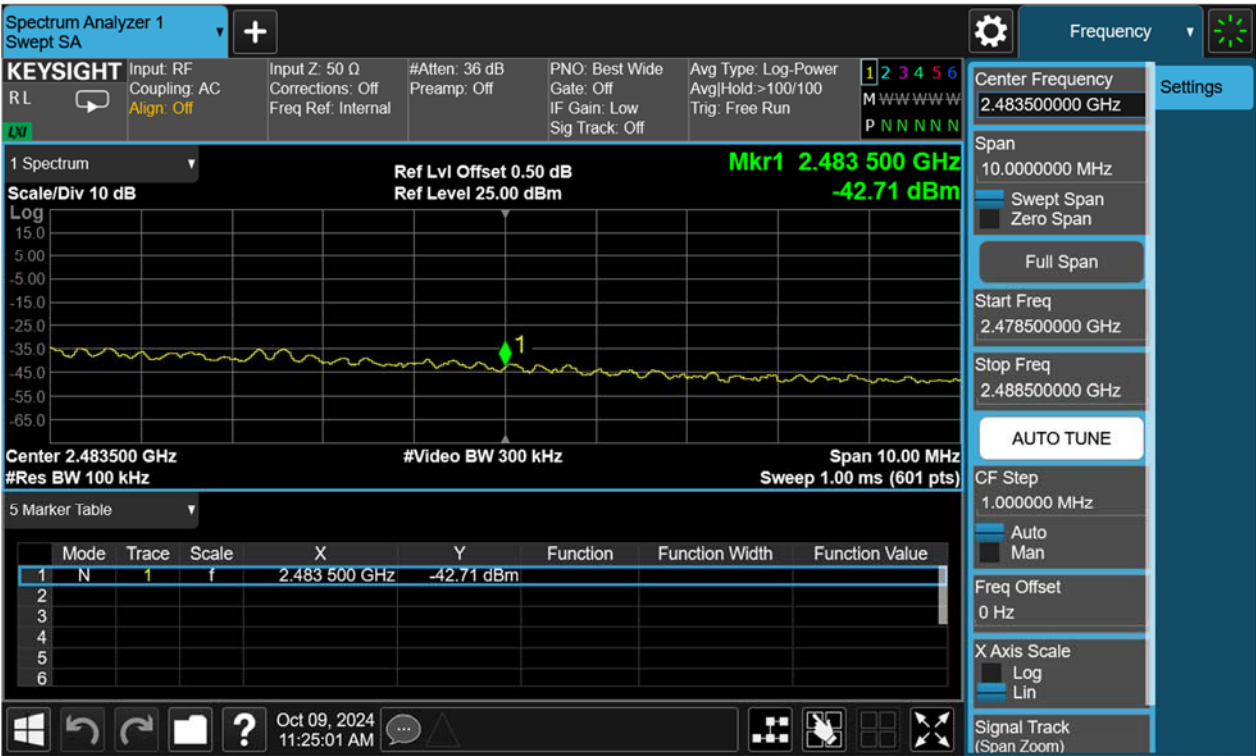
TEST REPORT

Report No.: SHE24090019-02CE Date: 2024-10-29 Page 37 of 68

Figure 30: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2462MHz Carrier Level



Band Edge



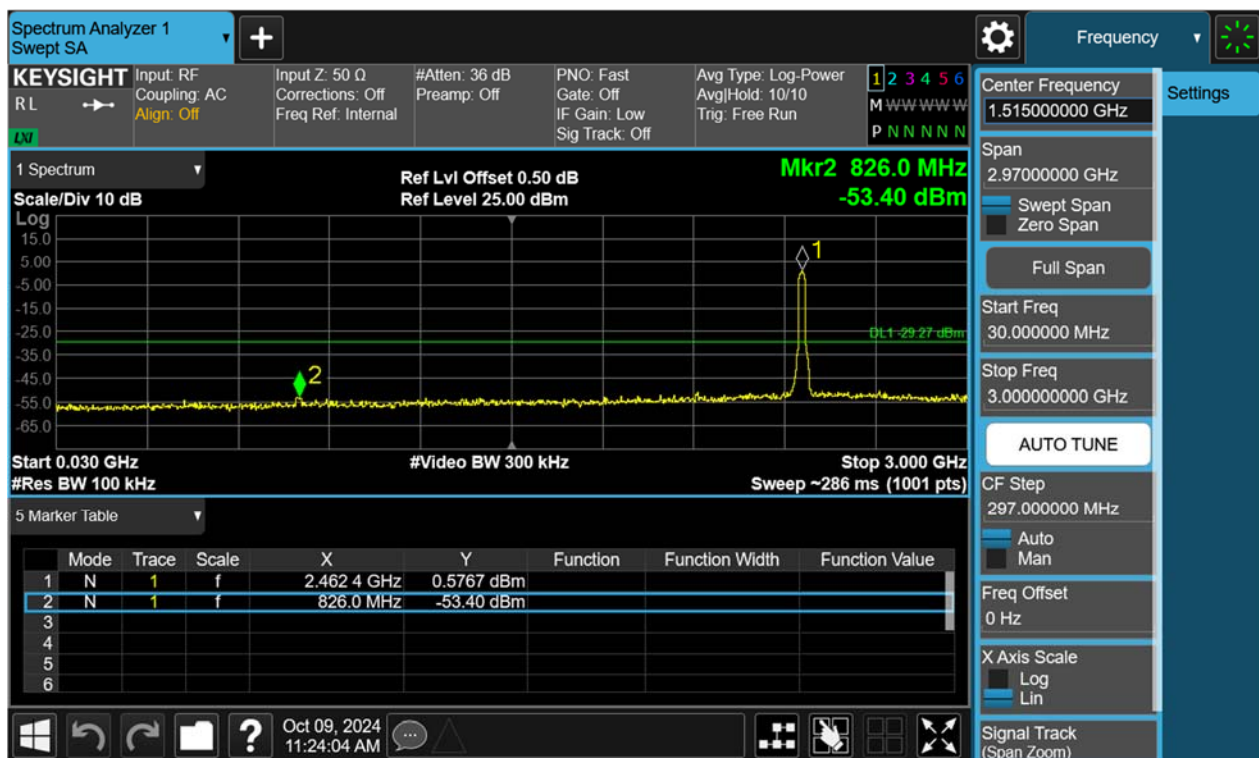
TEST REPORT

Report No.: SHE24090019-02CE

Date: 2024-10-29

Page 38 of 68

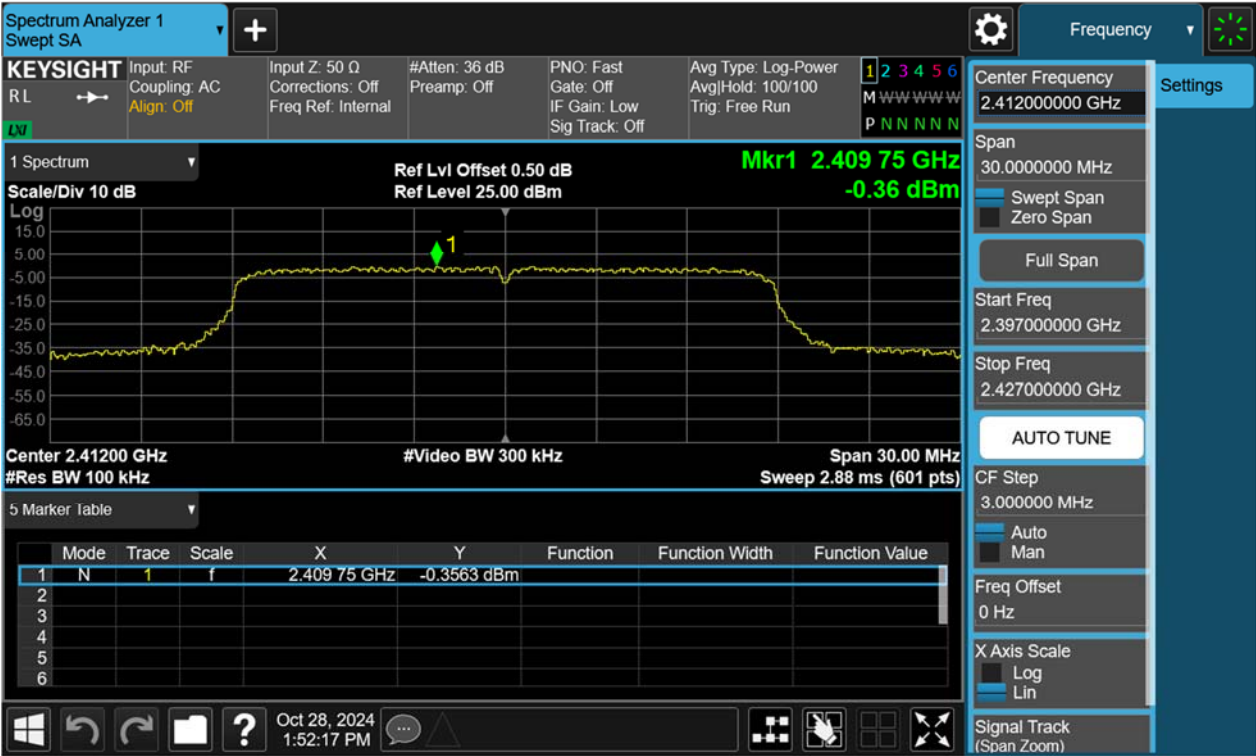
Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE24090019-02CE Date: 2024-10-29 Page 39 of 68

Figure 31: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2412MHz Carrier Level



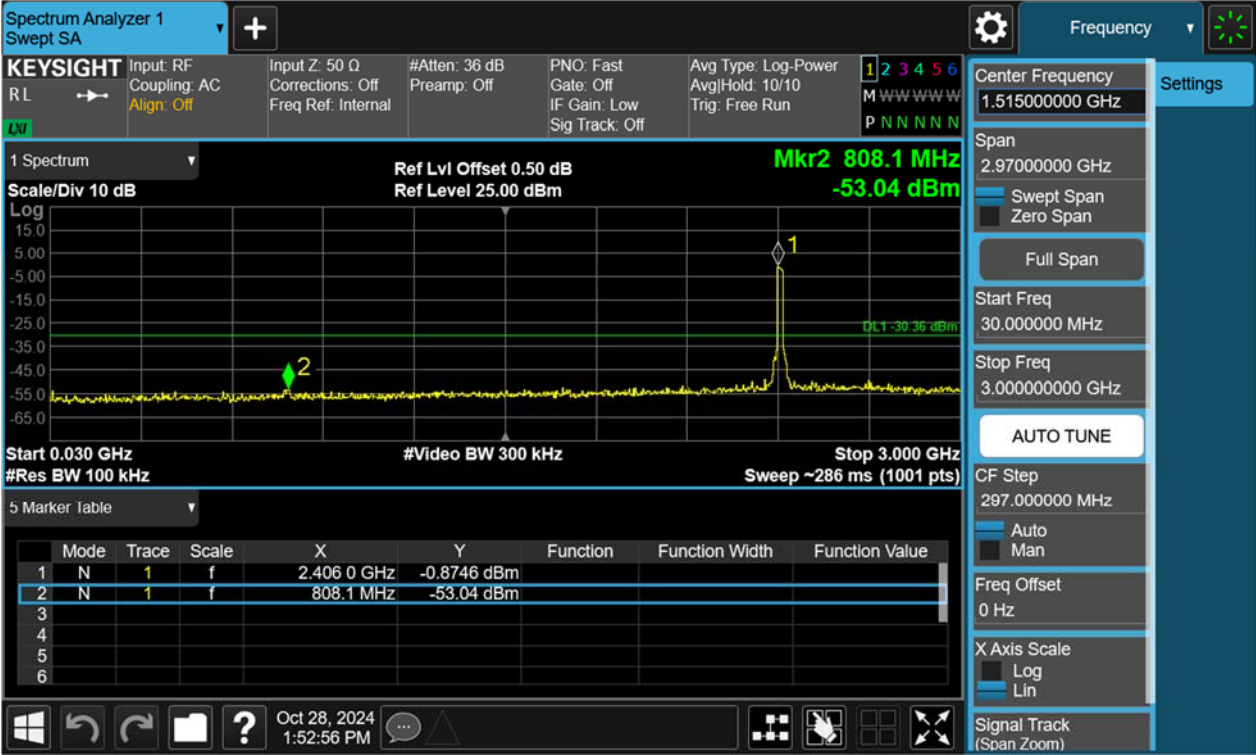
Band Edge



TEST REPORT

Report No.: SHE24090019-02CE Date: 2024-10-29 Page 40 of 68

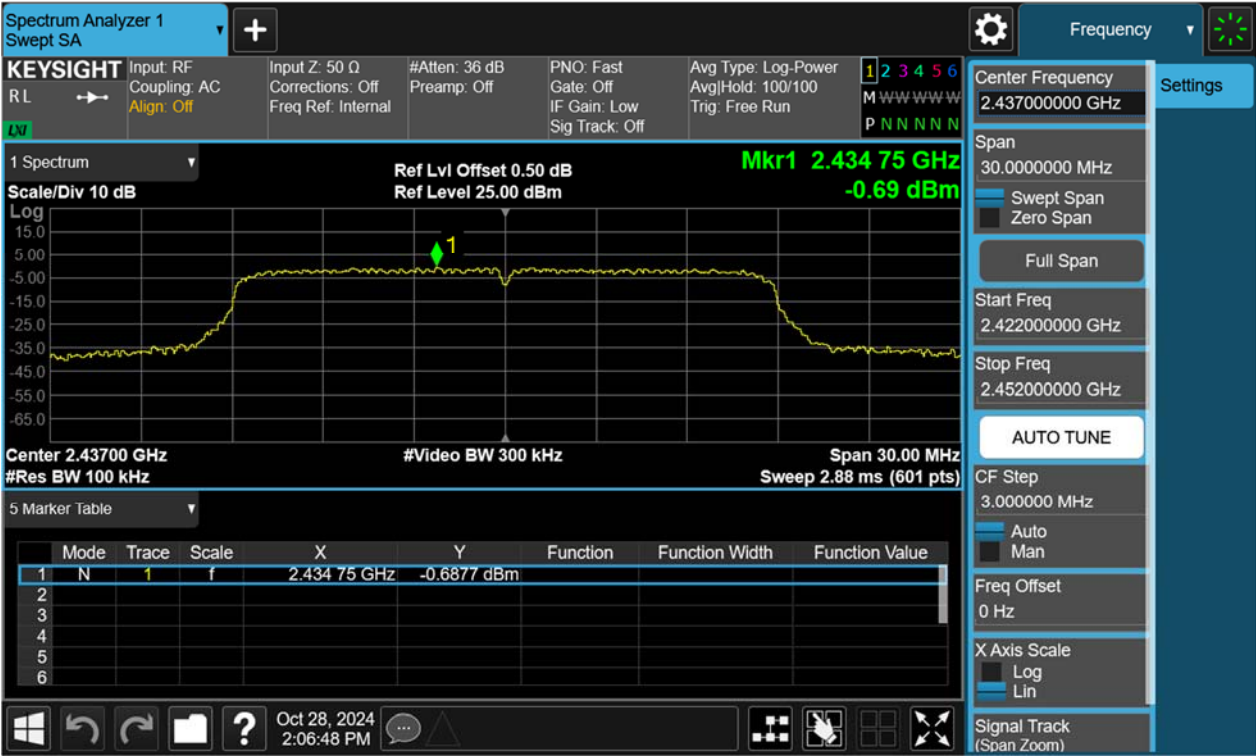
Conducted spurious emissions 30MHz-25GHz



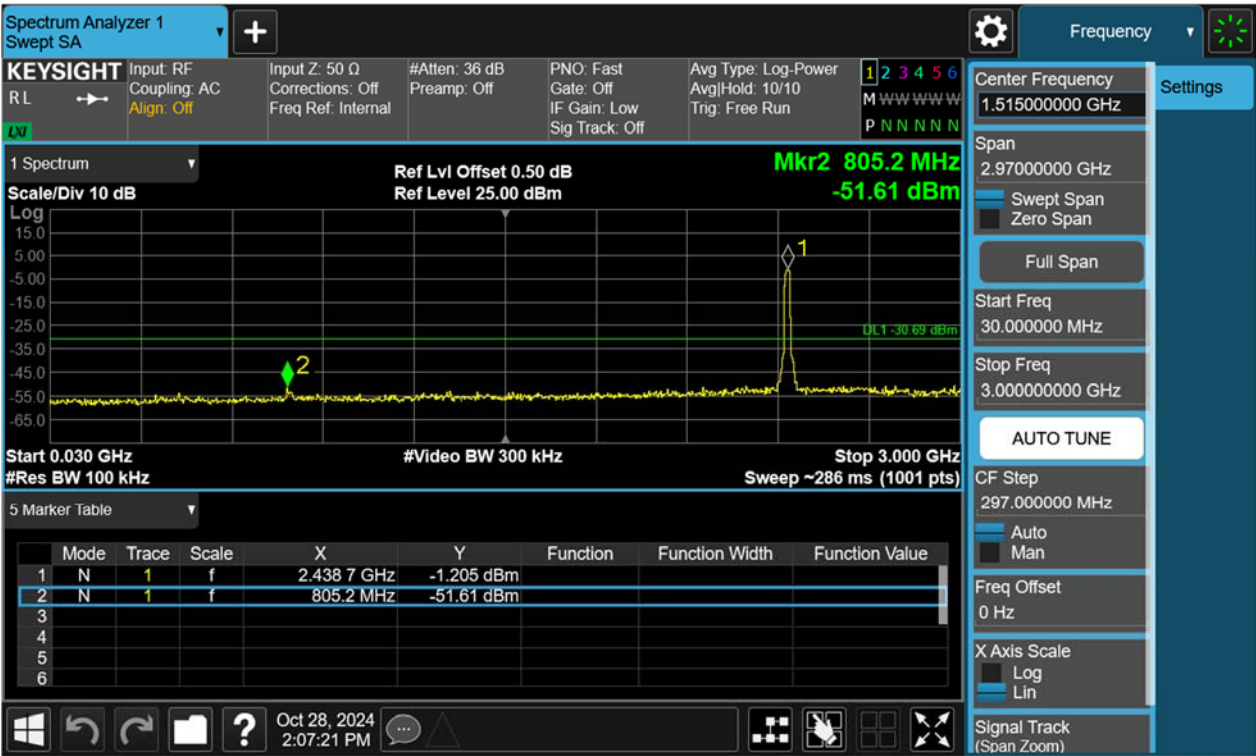
TEST REPORT

Report No.: SHE24090019-02CE Date: 2024-10-29 Page 41 of 68

Figure 32: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE24090019-02CE

Date: 2024-10-29

Page 42 of 68

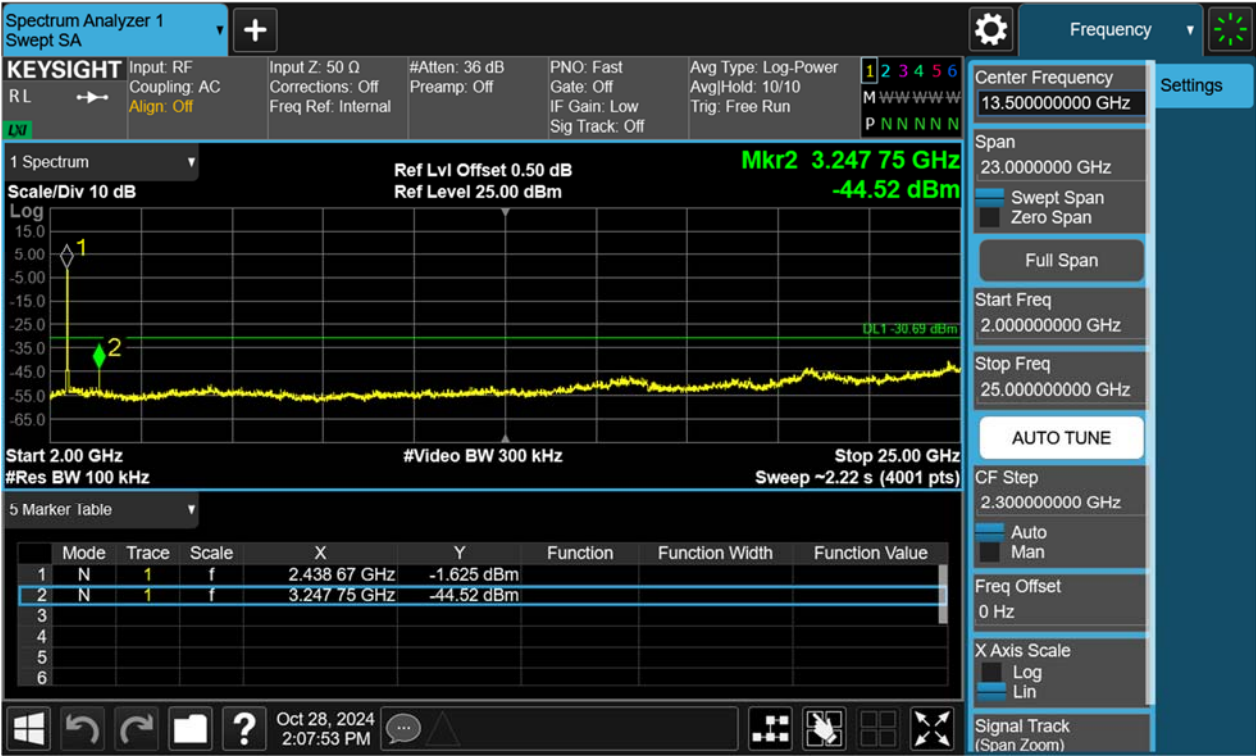


Figure 33: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2462MHz Carrier Level



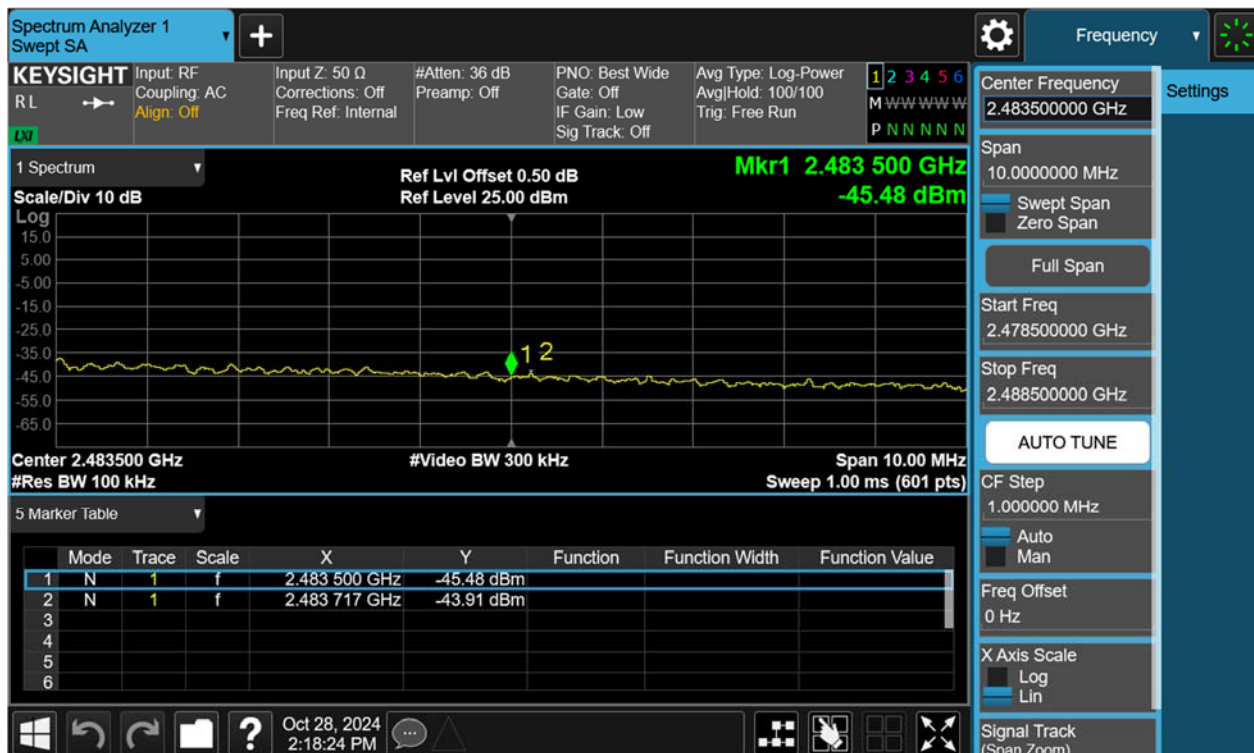
TEST REPORT

Report No.: SHE24090019-02CE

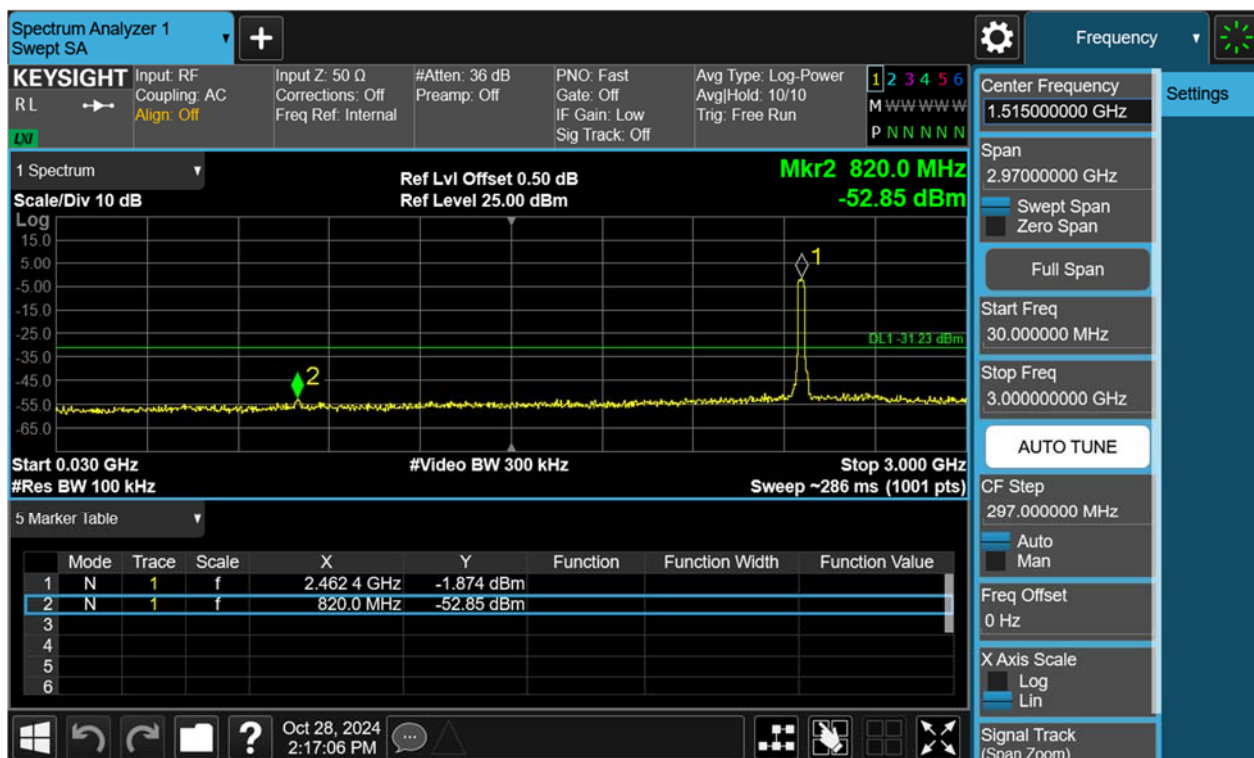
Date: 2024-10-29

Page 43 of 68

Band Edge



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE24090019-02CE

Date: 2024-10-29

Page 44 of 68

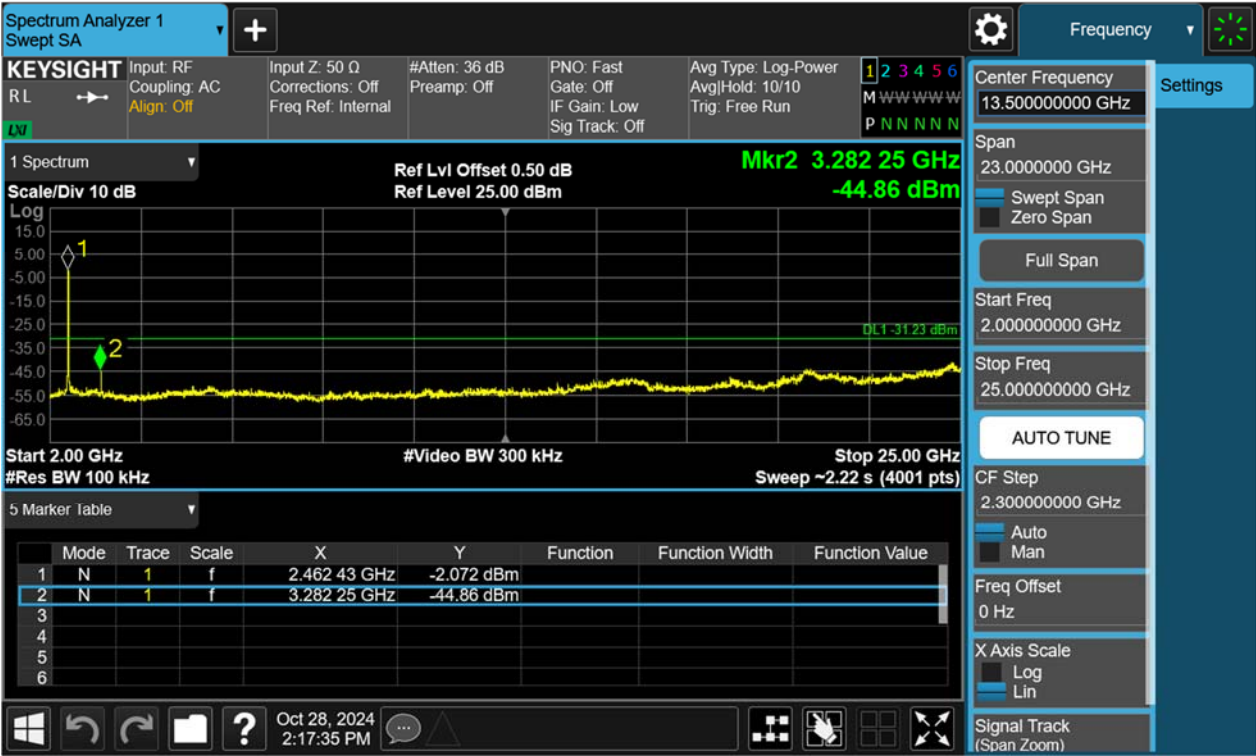
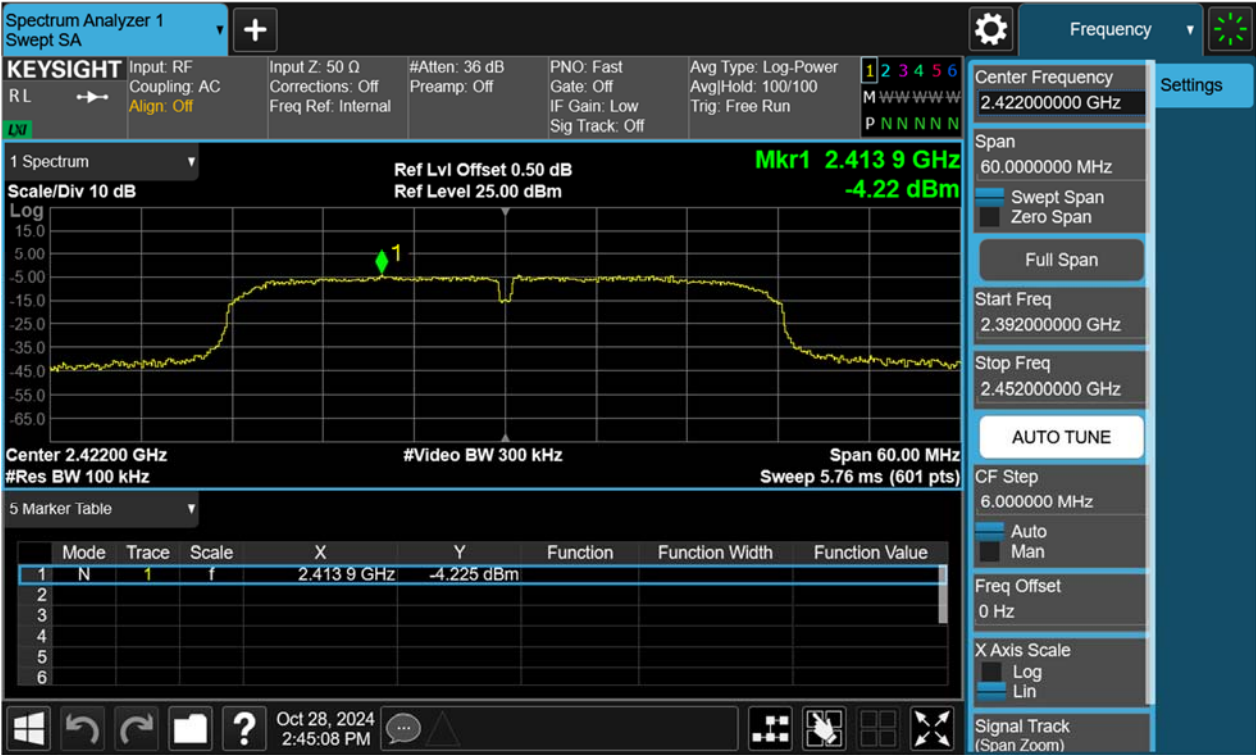


Figure 34: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2422MHz Carrier Level



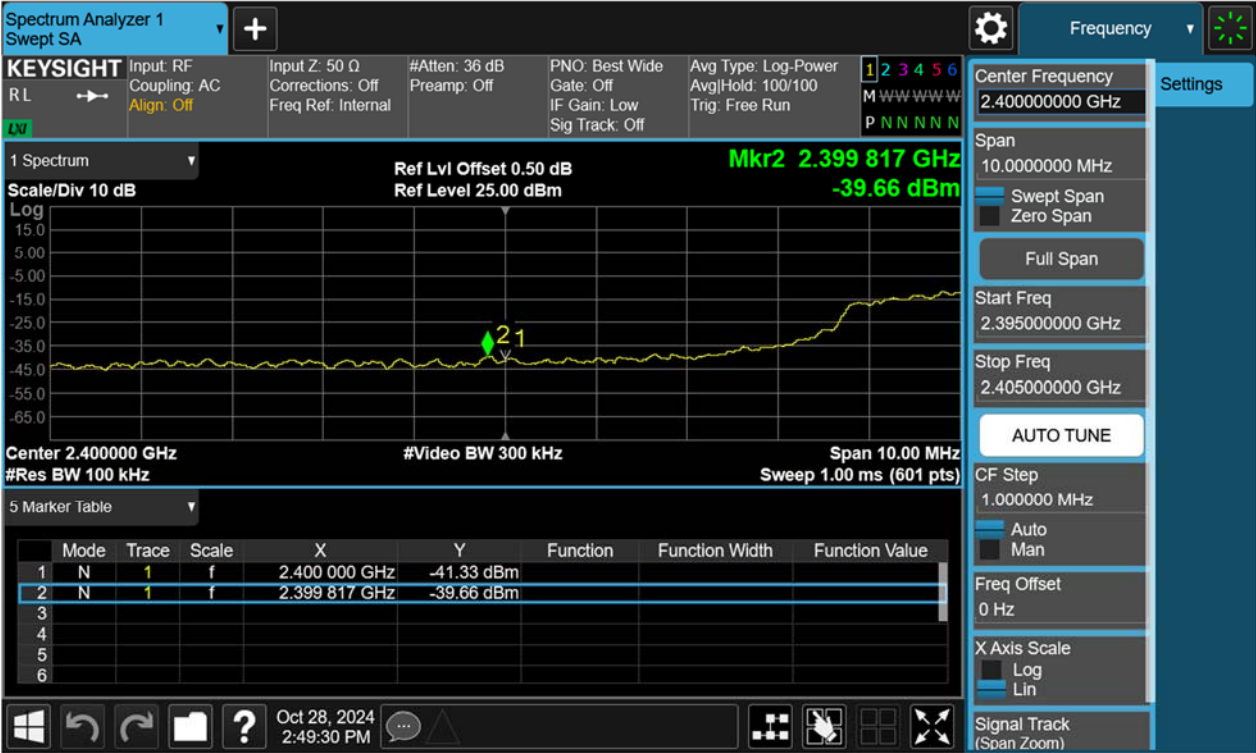
TEST REPORT

Report No.: SHE24090019-02CE

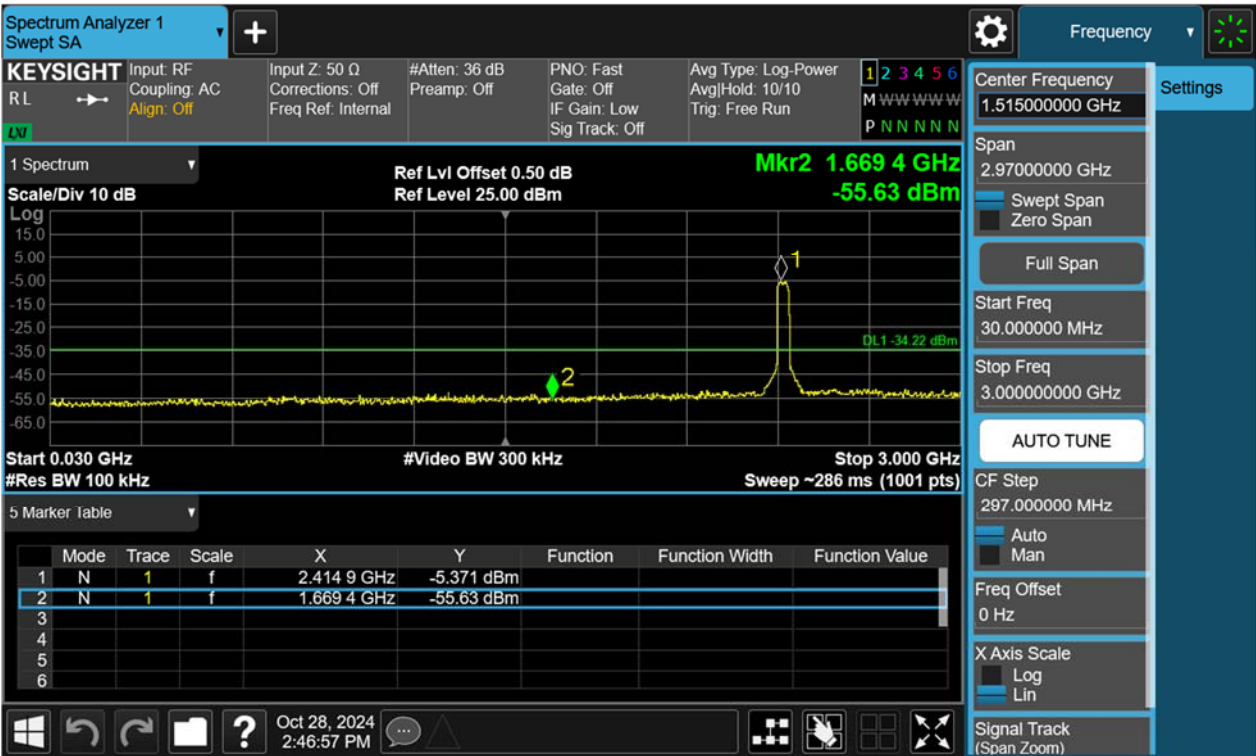
Date: 2024-10-29

Page 45 of 68

Band Edge



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE24090019-02CE

Date: 2024-10-29

Page 46 of 68

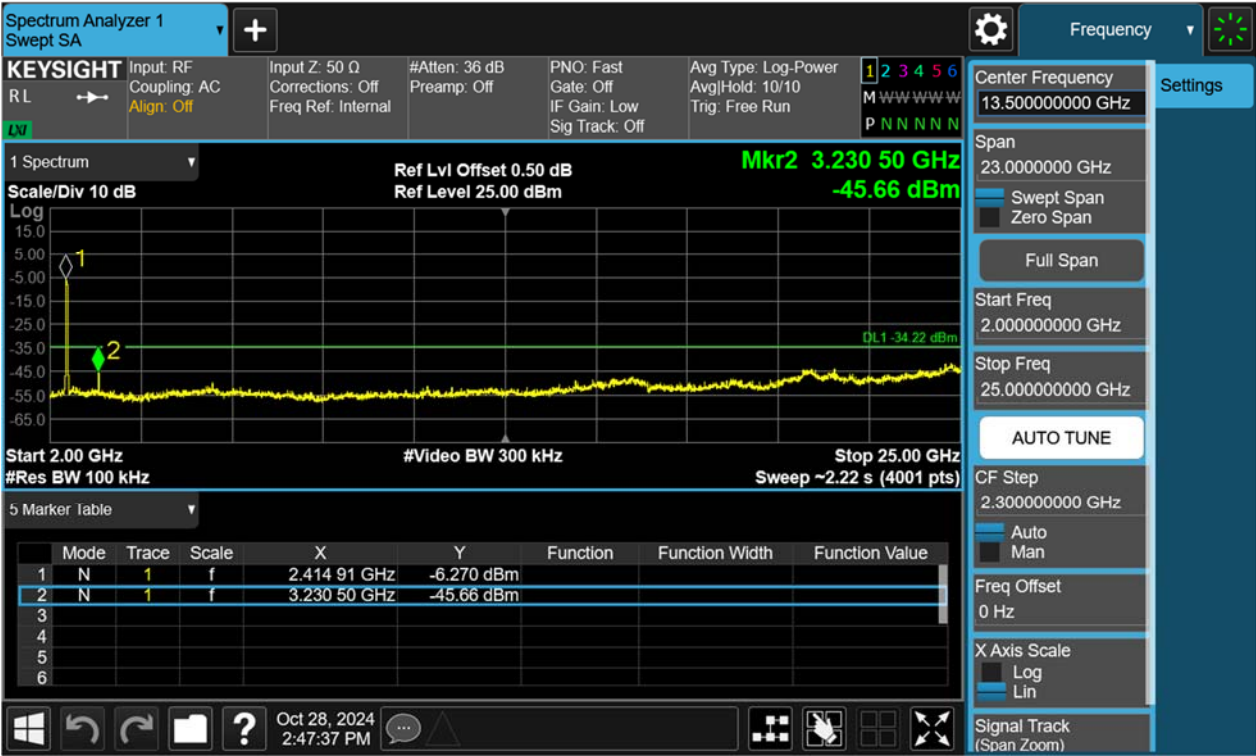


Figure 35: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2437MHz Carrier Level



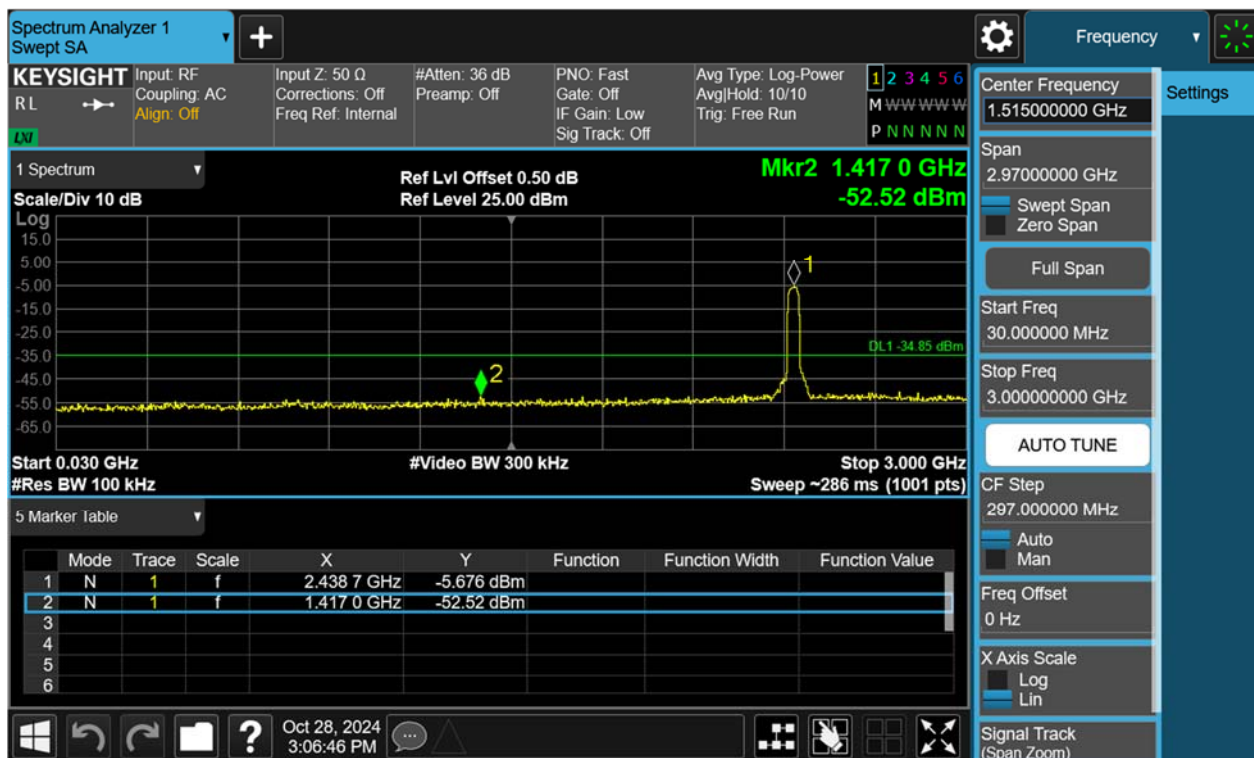
TEST REPORT

Report No.: SHE24090019-02CE

Date: 2024-10-29

Page 47 of 68

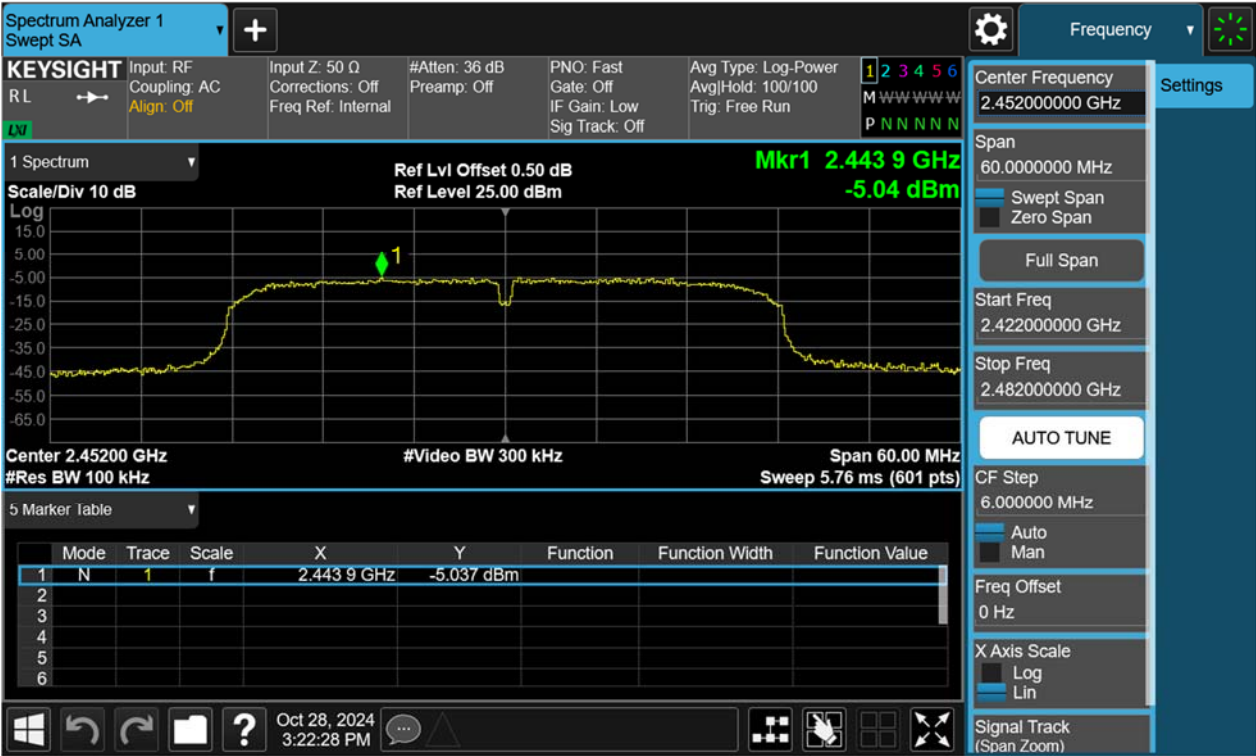
Conducted spurious emissions 30MHz-25GHz



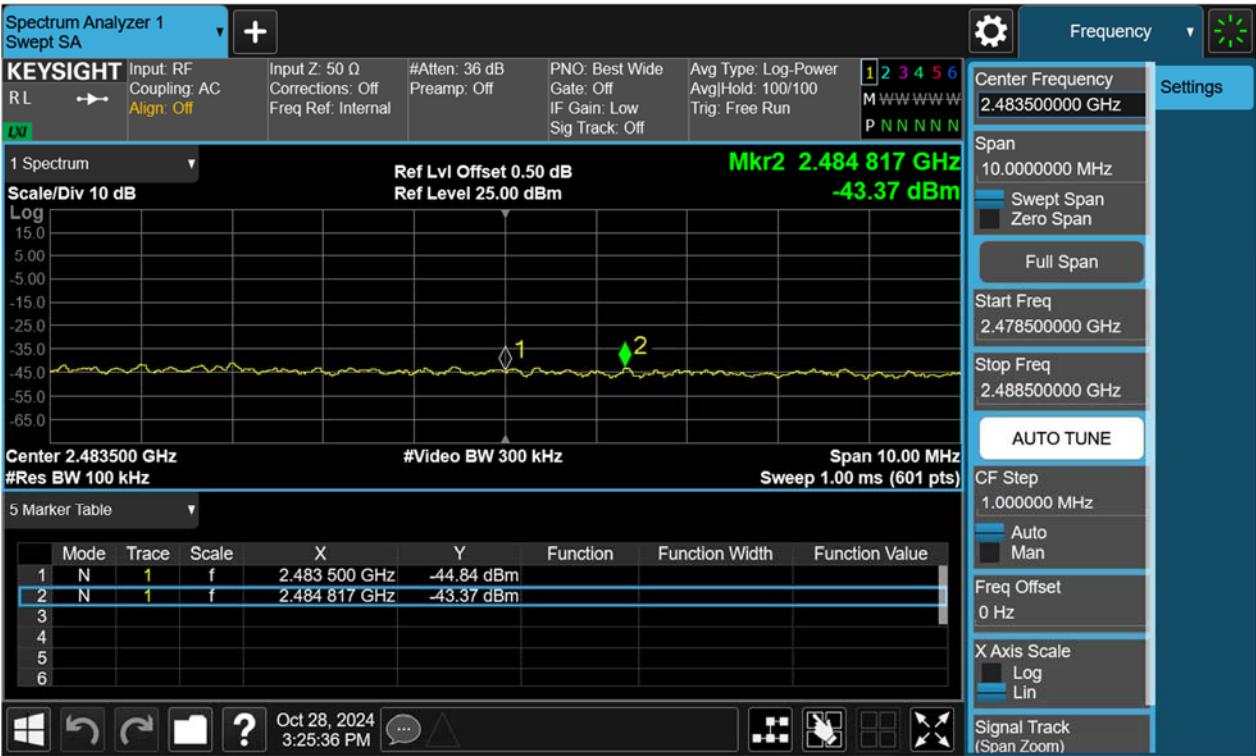
TEST REPORT

Report No.: SHE24090019-02CE Date: 2024-10-29 Page 48 of 68

Figure 36: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2452MHz Carrier Level



Band Edge



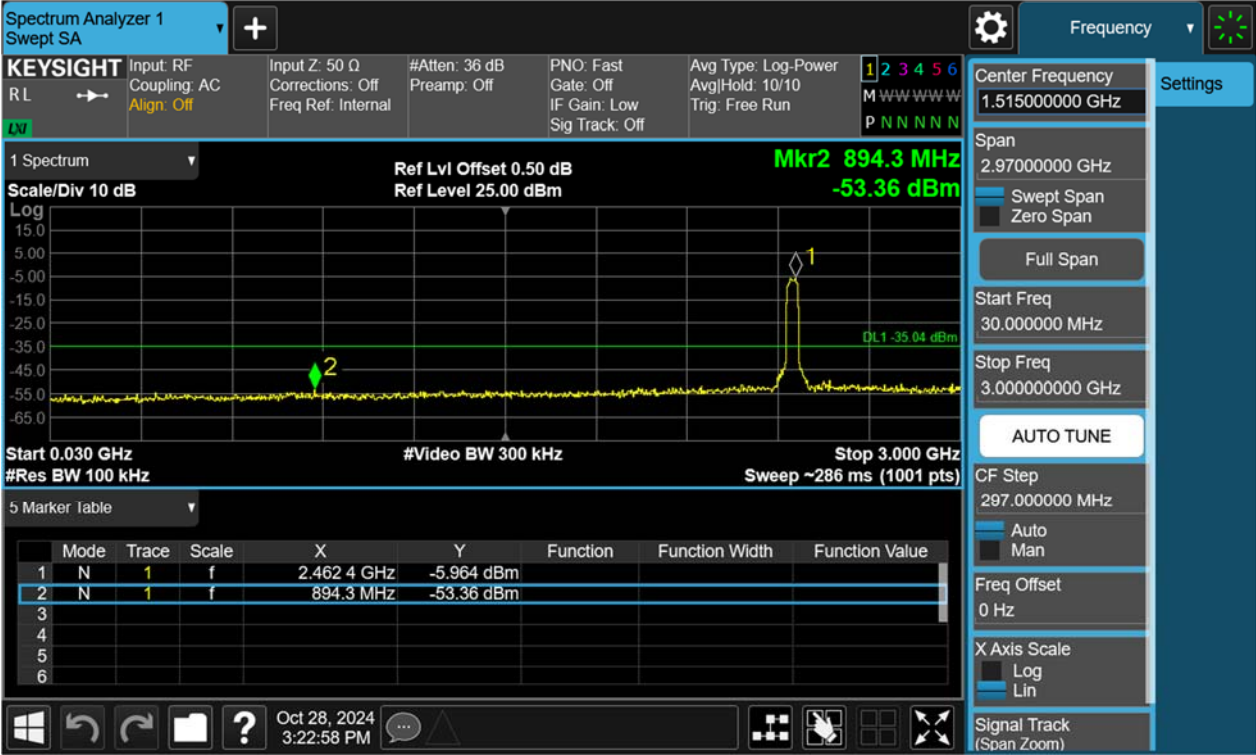
TEST REPORT

Report No.: SHE24090019-02CE

Date: 2024-10-29

Page 49 of 68

Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE24090019-02CE

Date: 2024-10-29

Page 50 of 68

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	: 23.6°C
Relative humidity	: 44%

Notes

Test plots please refer to the annex document "SHE24090019-02CE 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. All test modes had been pre-tested, but only the 802.11b at low channel of below 1 GHz is the worst case and recorded in the report.*
- 4. 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.*

TEST REPORT

Report No.: SHE24090019-02CE

Date: 2024-10-29

Page 51 of 68

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/Middle/High
Operation Mode	: A.1.a
Ambient temperature	: 23.6°C
Relative humidity	: 44%

Notes:

1. Test plots please refer to the annex document “SHE24090019-02CE DATA WIFI 2.4GHz-TX EXHIBIT A”.
2. 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.

TEST REPORT

Report No.: SHE24090019-02CE

Date: 2024-10-29

Page 52 of 68

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	: DC 12V supply by AC adapter (which received AC 120V, 60Hz)
Operation Mode	: A.1.a
Earthing	: Disconnected to GND
Ambient temperature	: 22.9°C
Relative humidity	: 53%

For details refer to following test plot.

TEST REPORT

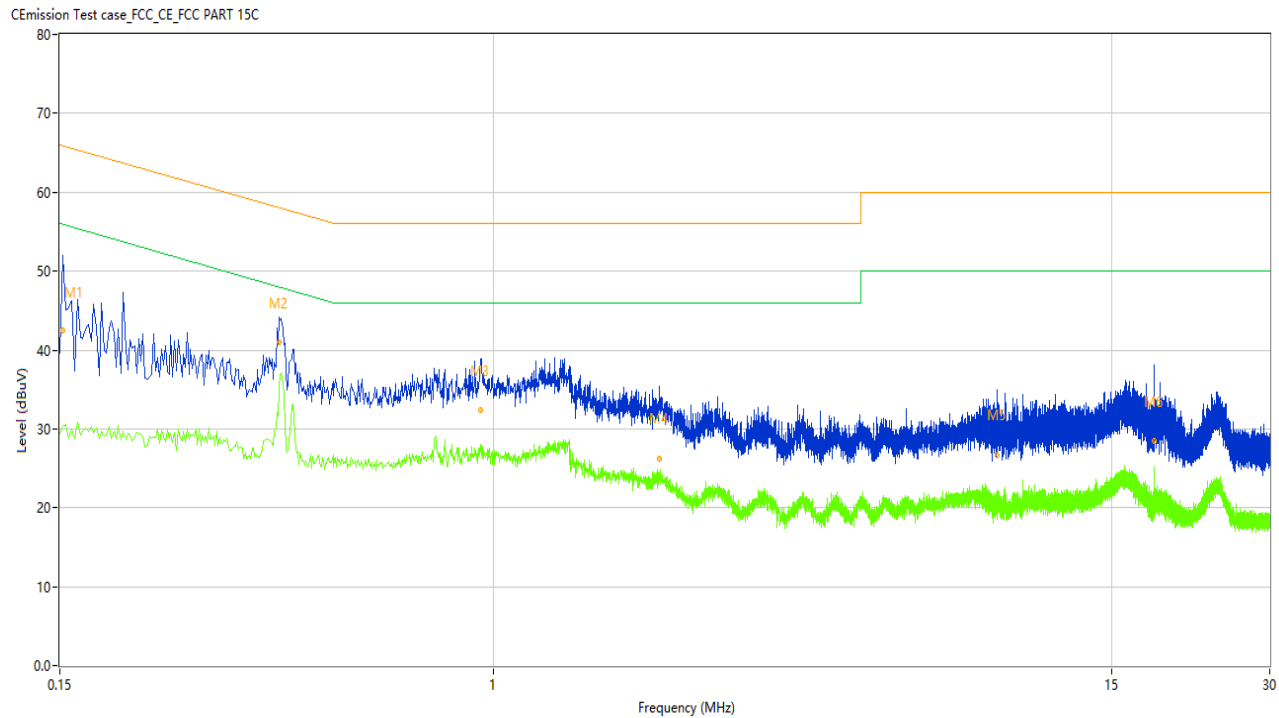
Report No.: SHE24090019-02CE

Date: 2024-10-29

Page 53 of 68

Note: All test modes had been pre-tested, but only the 802.11b at low channel is the worst case and recorded in the report.

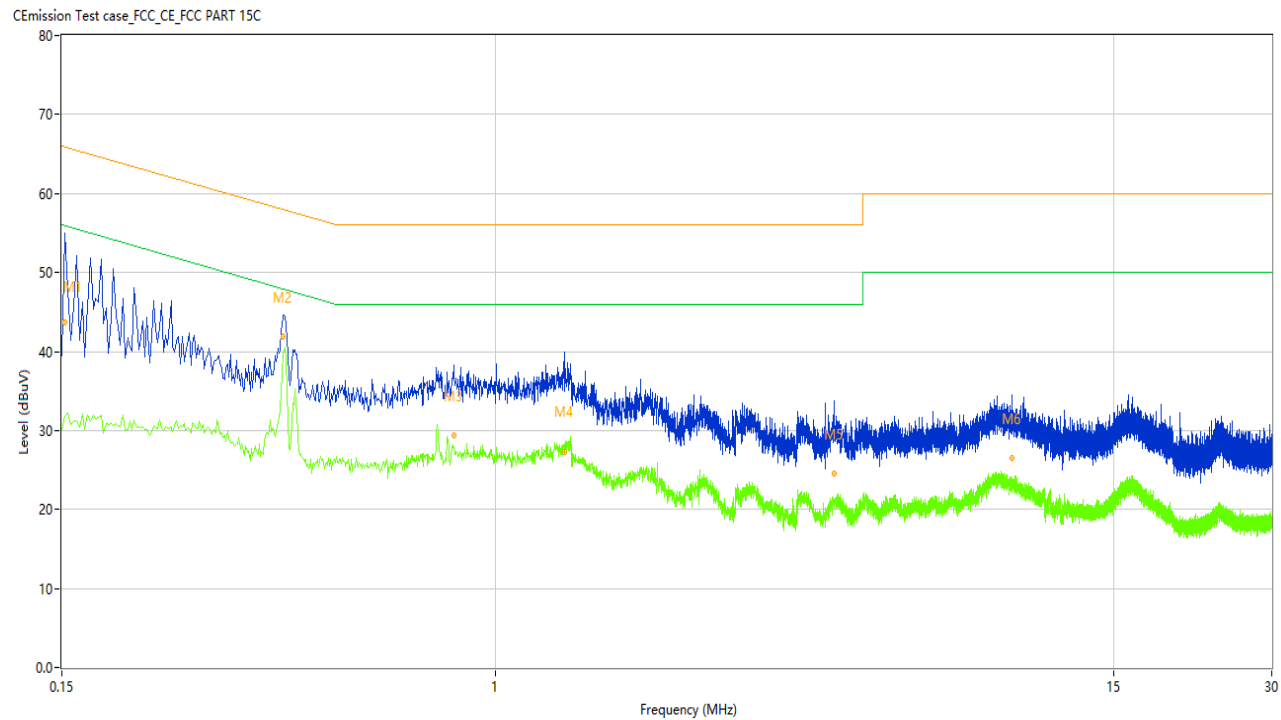
Figure 37: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	59.02	10.25	65.89	6.87	Peak	L	Pass
1*	0.152	42.46	10.25	65.89	23.43	QP	L	Pass
1**	0.152	30.26	10.25	55.89	25.63	AV	L	Pass
2	0.392	45.81	10.25	58.02	12.21	Peak	L	Pass
2*	0.392	41.00	10.25	58.02	17.02	QP	L	Pass
2**	0.392	35.05	10.25	48.02	12.97	AV	L	Pass
3	0.948	38.57	10.25	56.00	17.43	Peak	L	Pass
3*	0.948	32.45	10.25	56.00	23.55	QP	L	Pass
3**	0.948	27.13	10.25	46.00	18.87	AV	L	Pass
4	2.074	32.94	10.20	56.00	23.06	Peak	L	Pass
4*	2.074	26.15	10.20	56.00	29.85	QP	L	Pass
4**	2.074	23.64	10.20	46.00	22.36	AV	L	Pass
5	9.094	34.99	10.43	60.00	25.01	Peak	L	Pass
5*	9.094	26.67	10.43	60.00	33.33	QP	L	Pass
5**	9.094	21.49	10.43	50.00	28.51	AV	L	Pass
6	18.086	40.32	10.85	60.00	19.68	Peak	L	Pass
6*	18.086	28.43	10.85	60.00	31.57	QP	L	Pass
6**	18.086	25.13	10.85	50.00	24.87	AV	L	Pass

TEST REPORT

Figure 38: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	60.37	10.12	65.89	5.52	Peak	N	Pass
1*	0.152	43.72	10.12	65.89	22.17	QP	N	Pass
1**	0.152	31.72	10.12	55.89	24.17	AV	N	Pass
2	0.396	48.26	10.13	57.94	9.68	Peak	N	Pass
2*	0.396	41.84	10.13	57.94	16.10	QP	N	Pass
2**	0.396	39.80	10.13	47.94	8.14	AV	N	Pass
3	0.834	37.29	10.15	56.00	18.71	Peak	N	Pass
3*	0.834	29.37	10.15	56.00	26.63	QP	N	Pass
3**	0.834	27.69	10.15	46.00	18.31	AV	N	Pass
4	1.358	34.97	10.04	56.00	21.03	Peak	N	Pass
4*	1.358	27.29	10.04	56.00	28.71	QP	N	Pass
4**	1.358	27.71	10.04	46.00	18.29	AV	N	Pass
5	4.412	33.22	10.22	56.00	22.78	Peak	N	Pass
5*	4.412	24.48	10.22	56.00	31.52	QP	N	Pass
5**	4.412	21.28	10.22	46.00	24.72	AV	N	Pass
6	9.622	36.00	10.34	60.00	24.00	Peak	N	Pass
6*	9.622	26.55	10.34	60.00	33.45	QP	N	Pass
6**	9.622	23.64	10.34	50.00	26.36	AV	N	Pass