

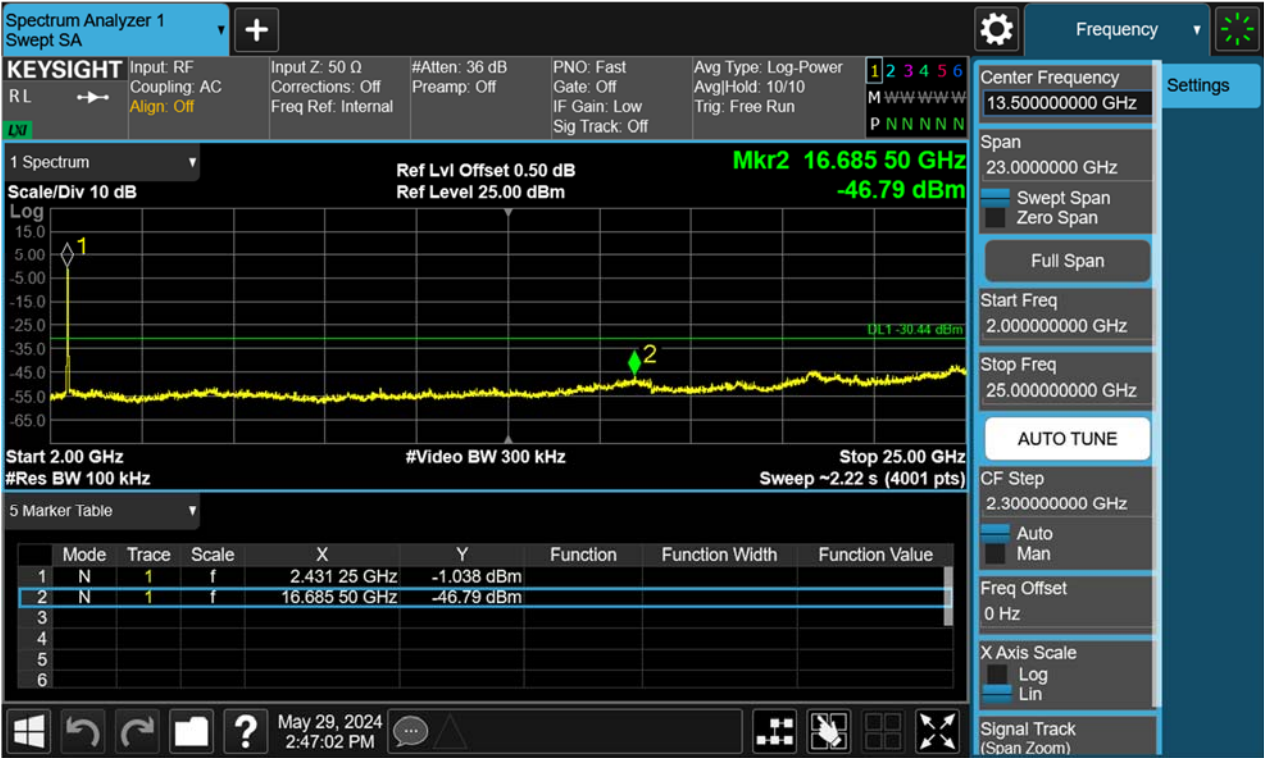
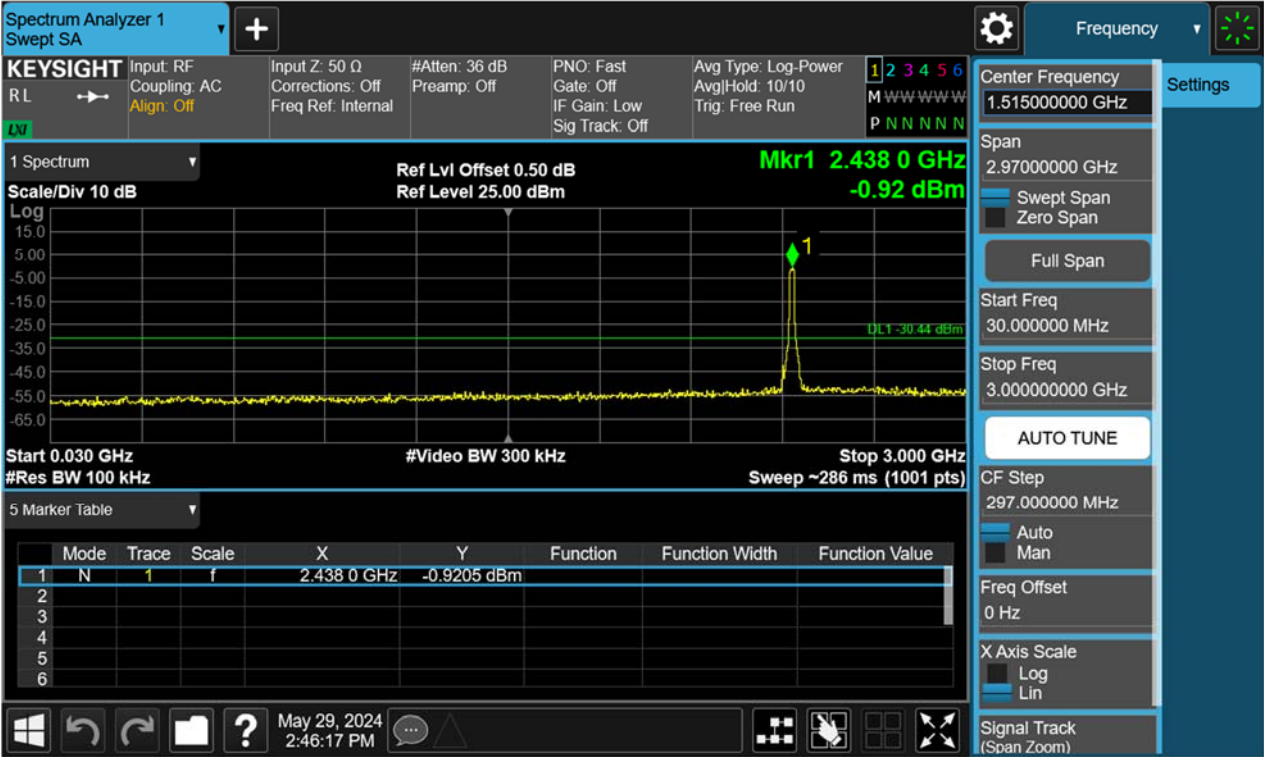
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Conducted spurious emissions 30MHz-25GHz



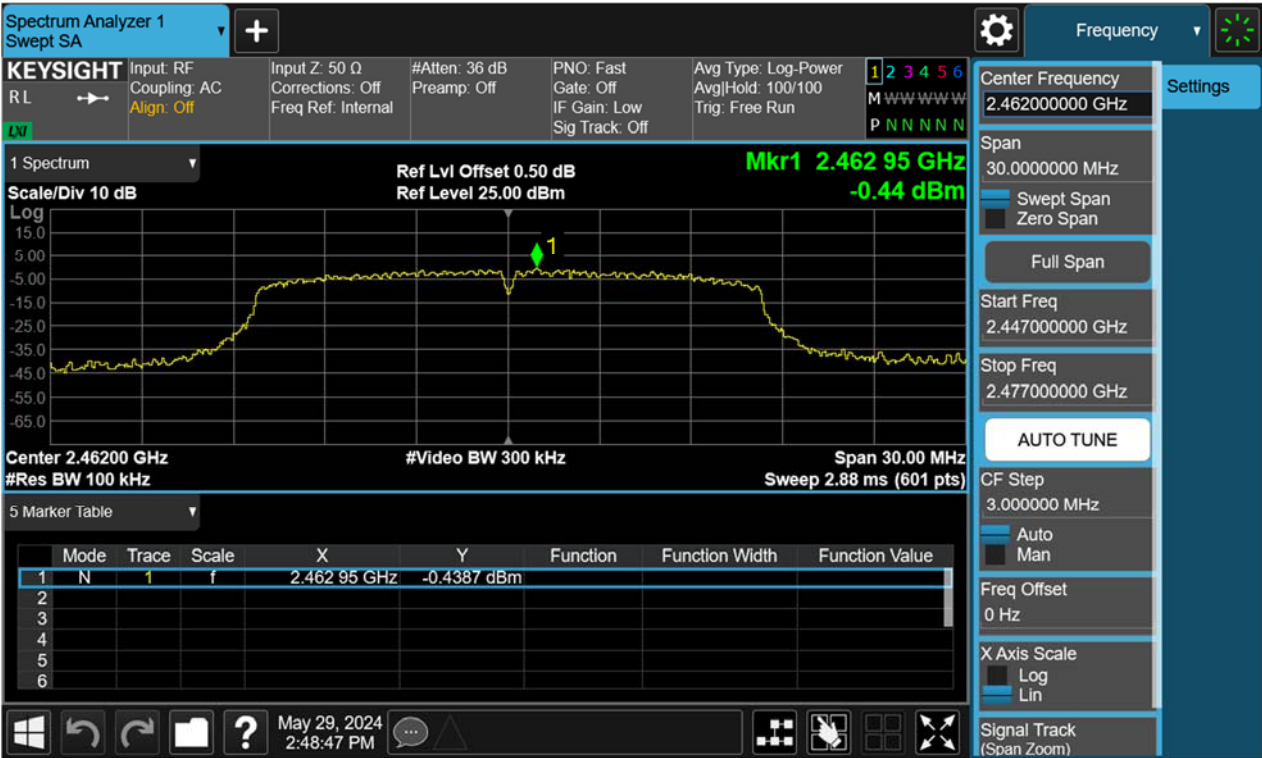
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Figure 30: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2462MHz Carrier Level



Band Edge



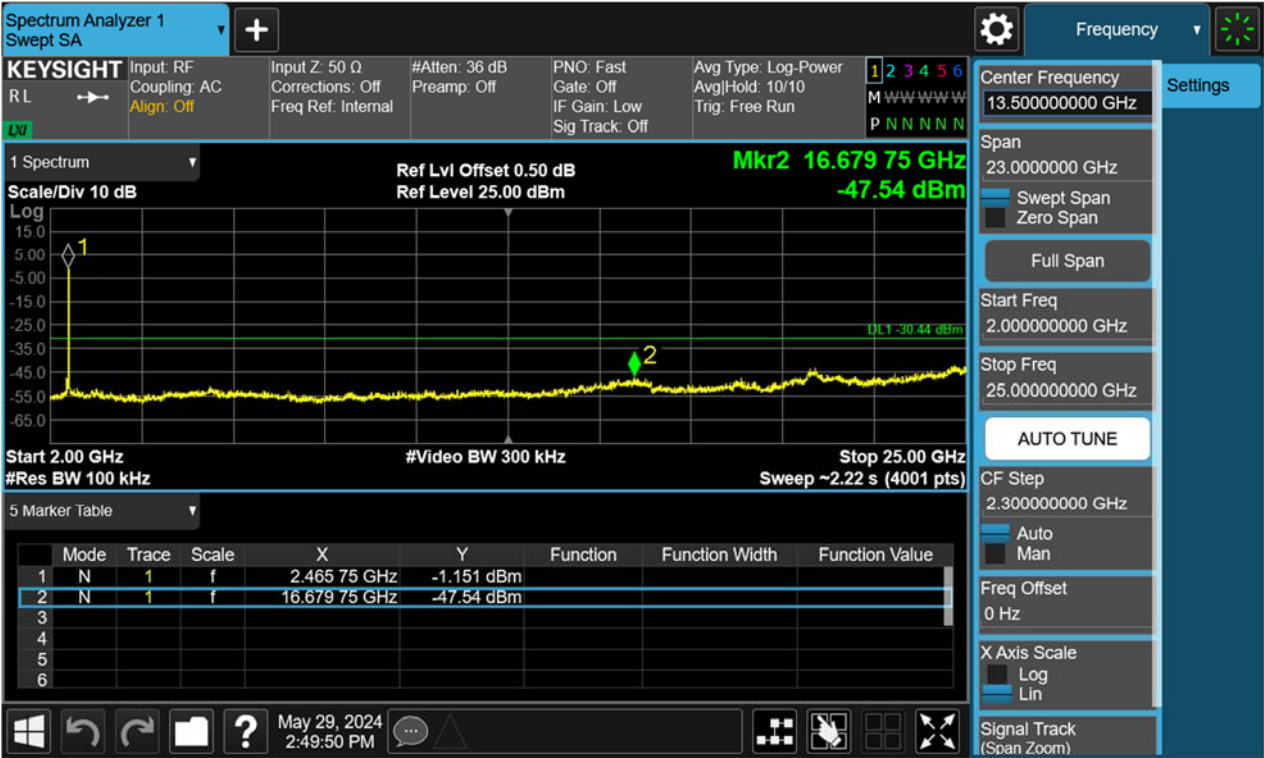
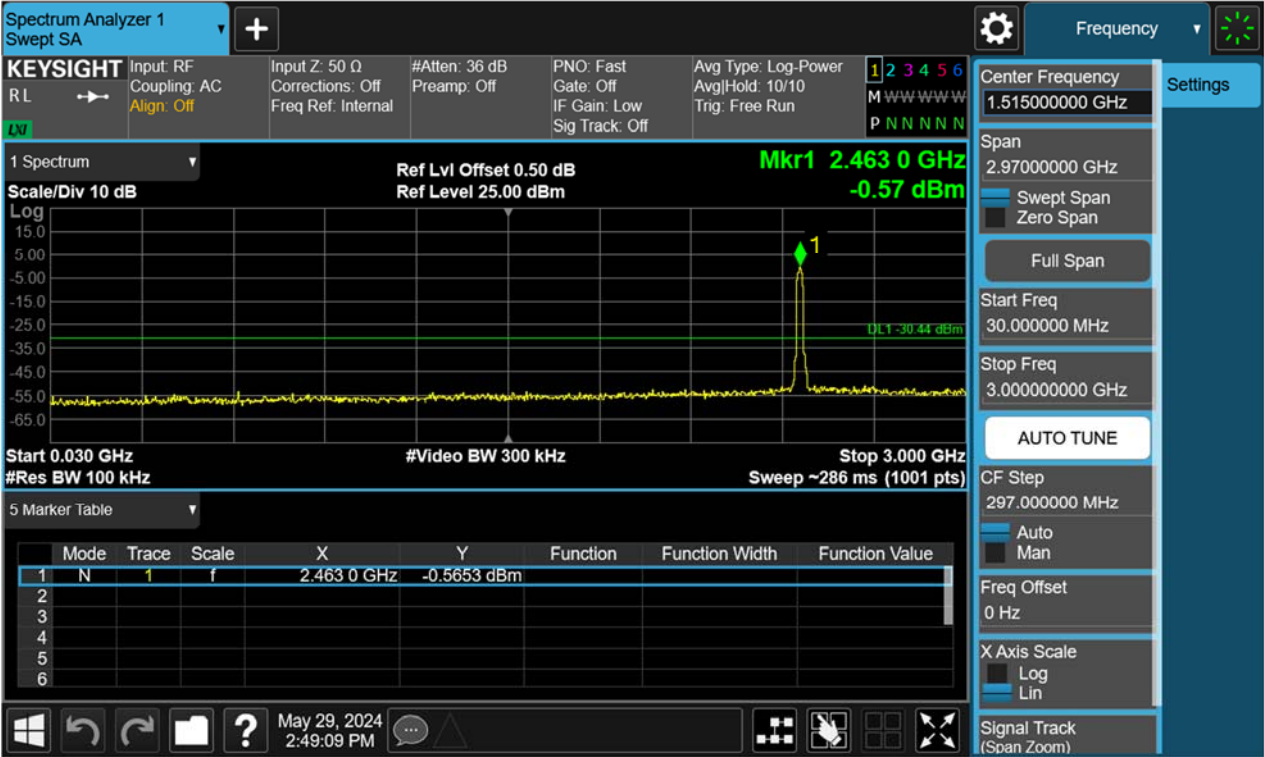
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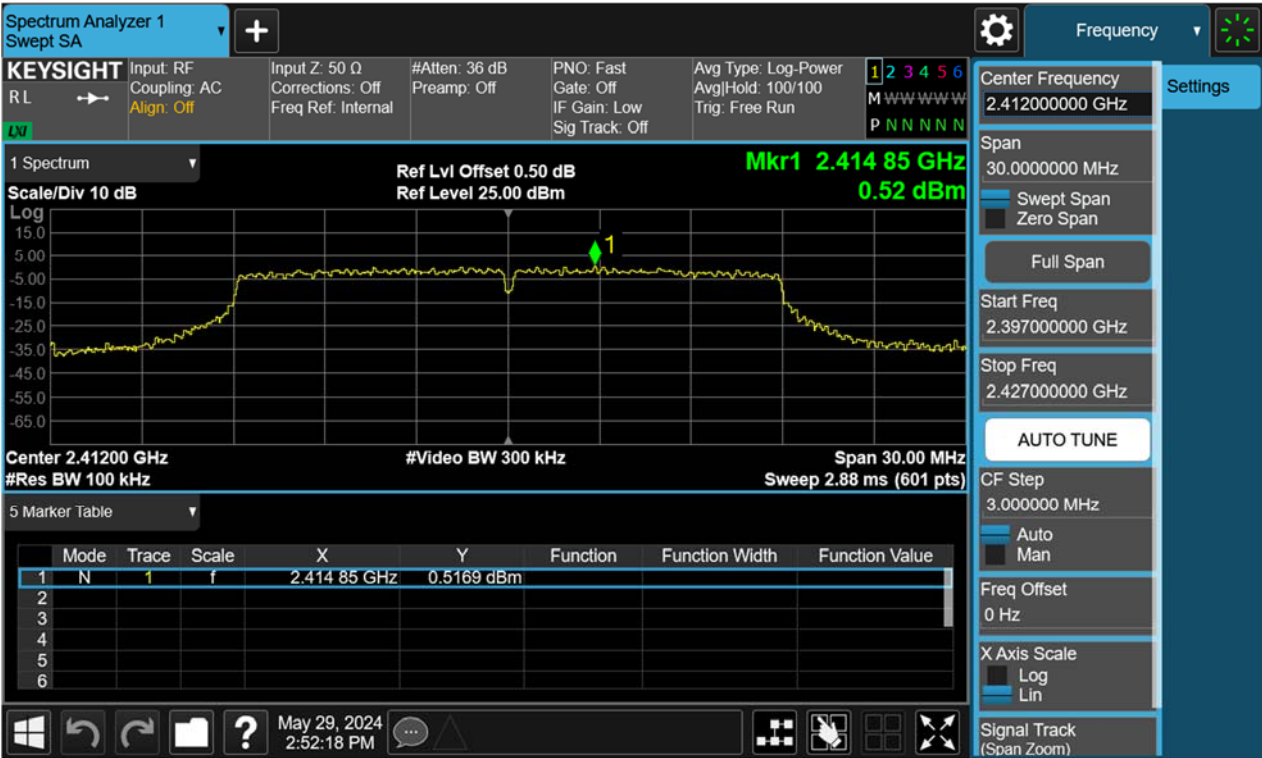
Conducted spurious emissions 30MHz-25GHz



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



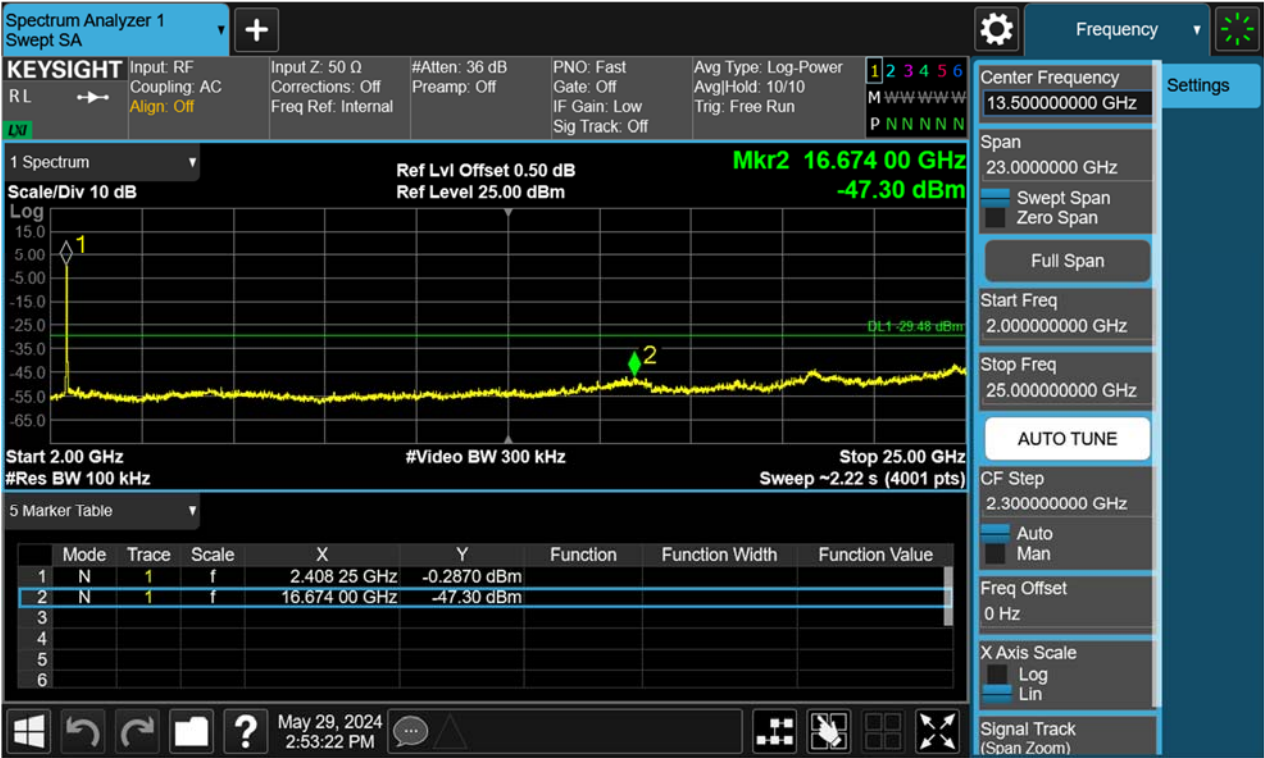
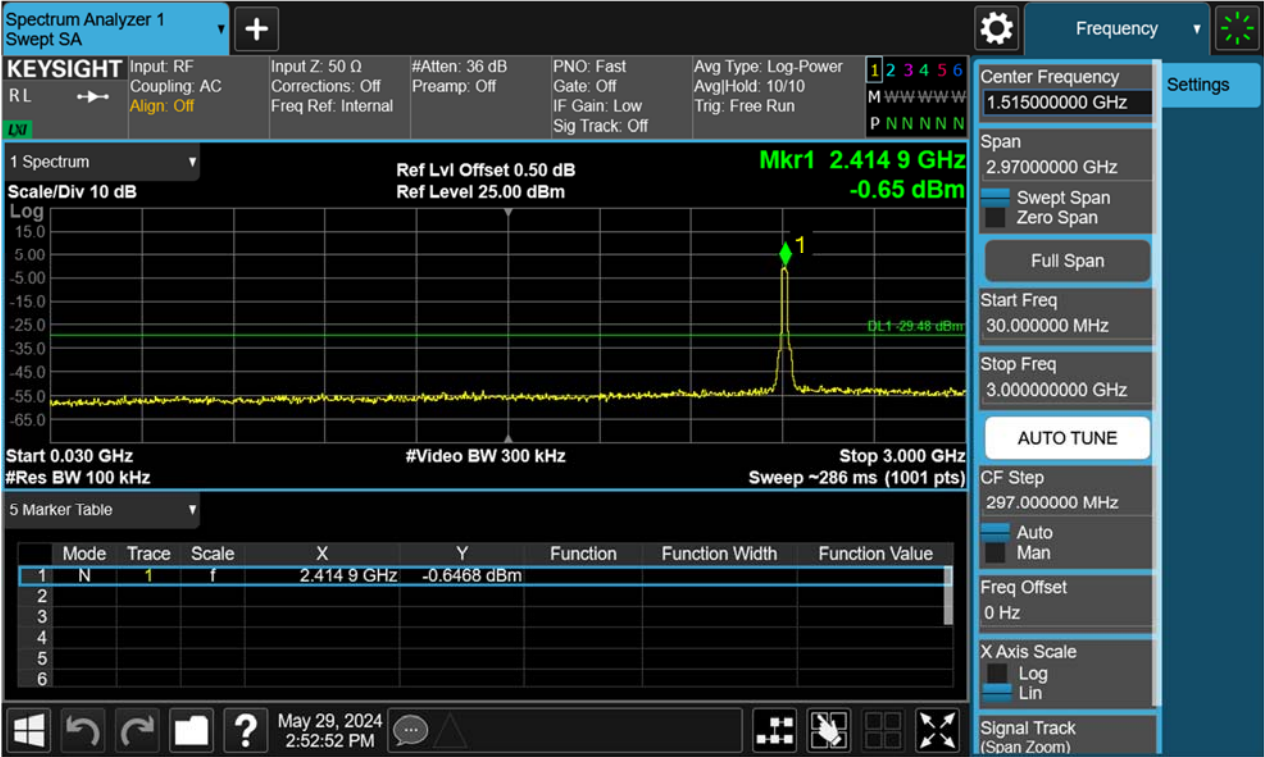
Band Edge



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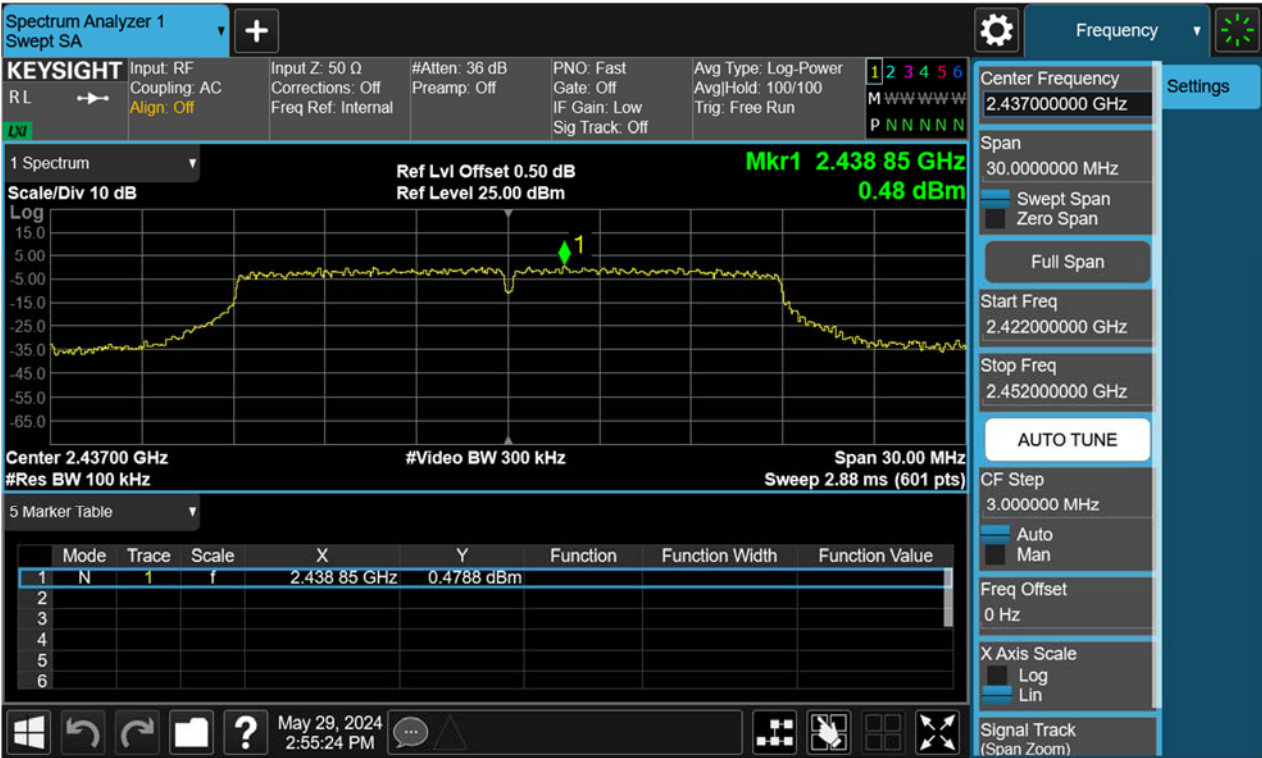
Conducted spurious emissions 30MHz-25GHz



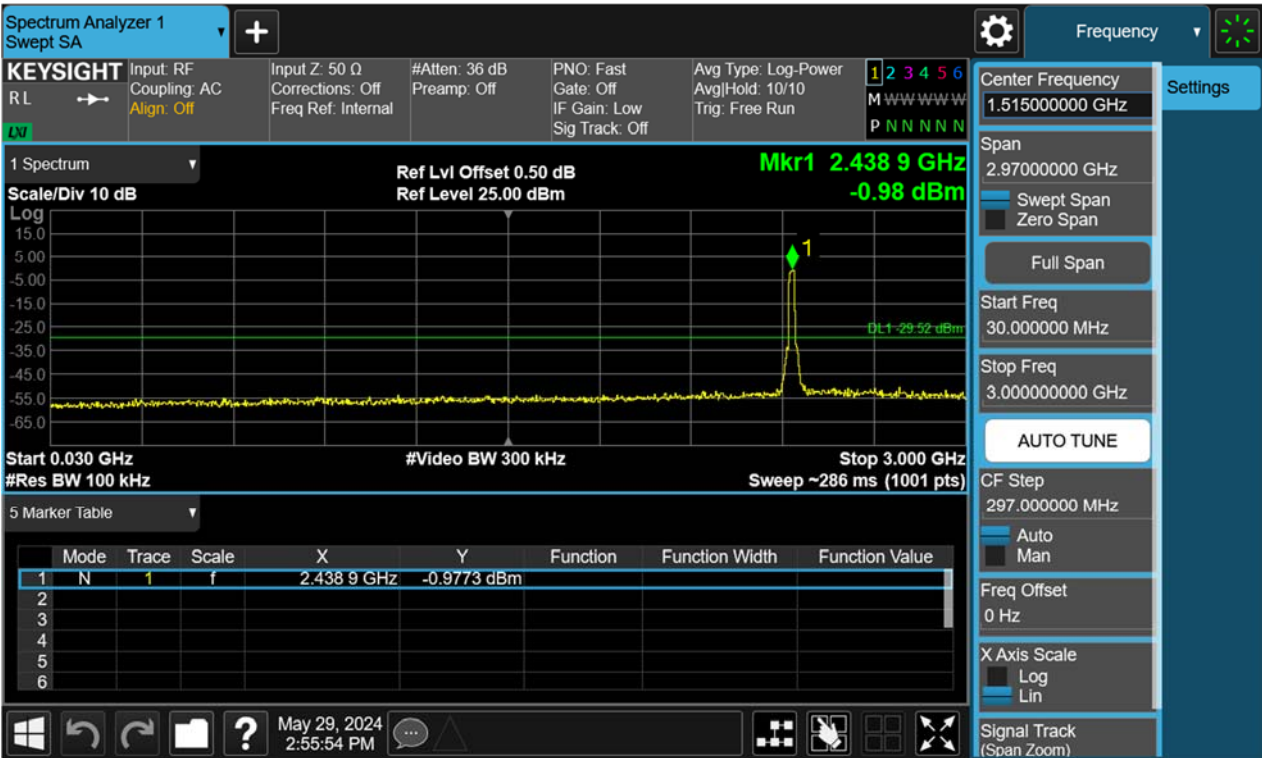
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Figure 32: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



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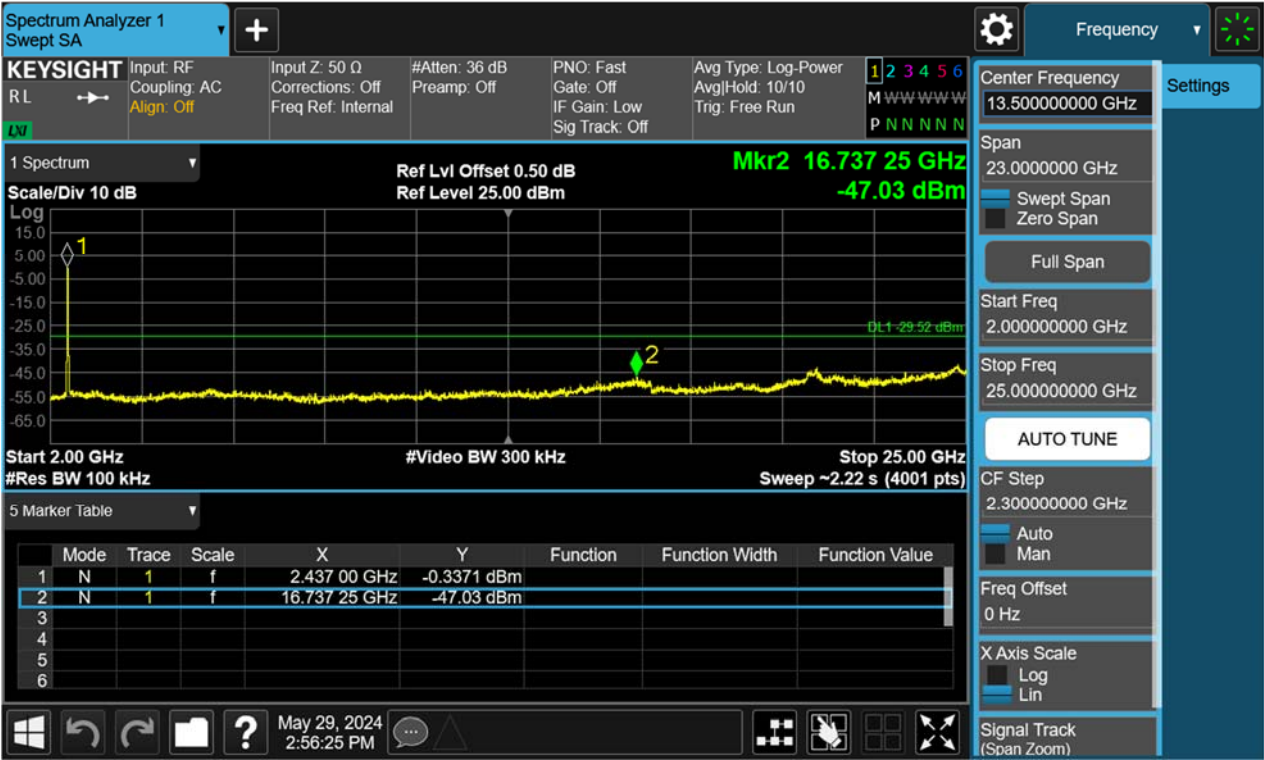
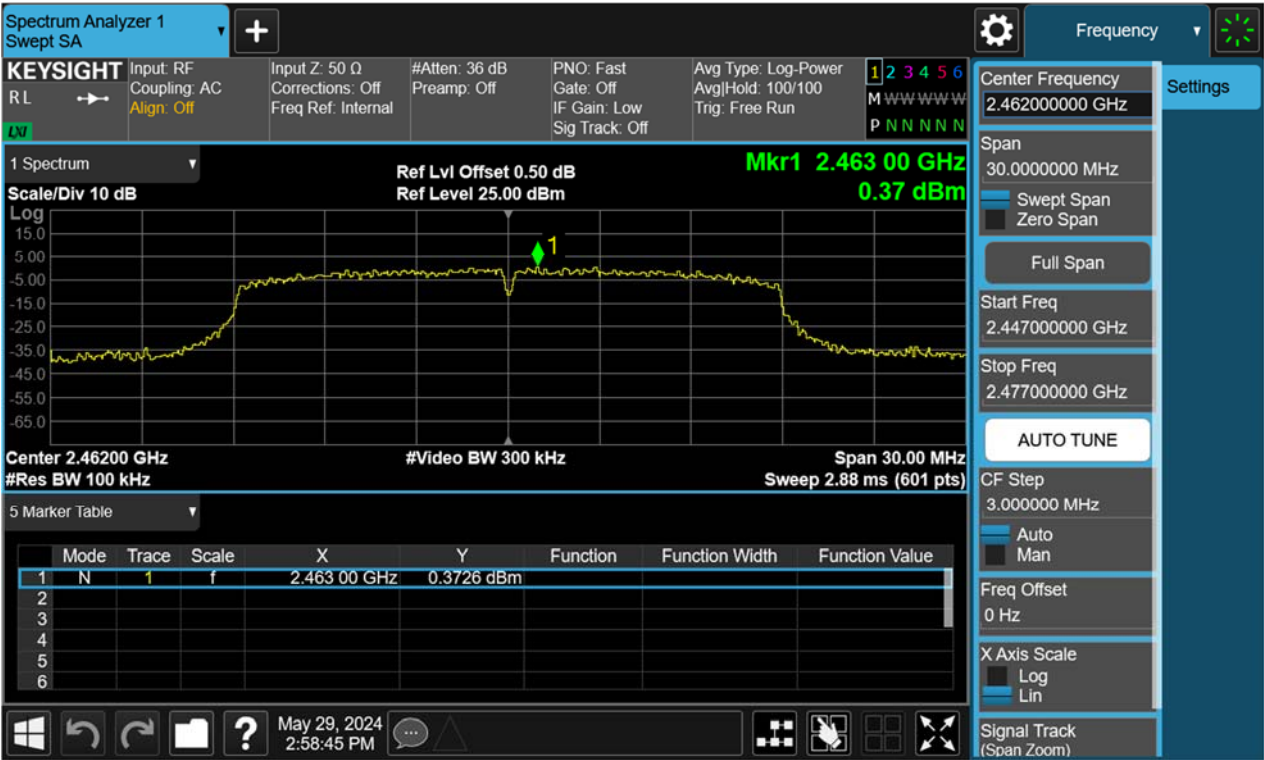


Figure 33: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2462MHz Carrier Level



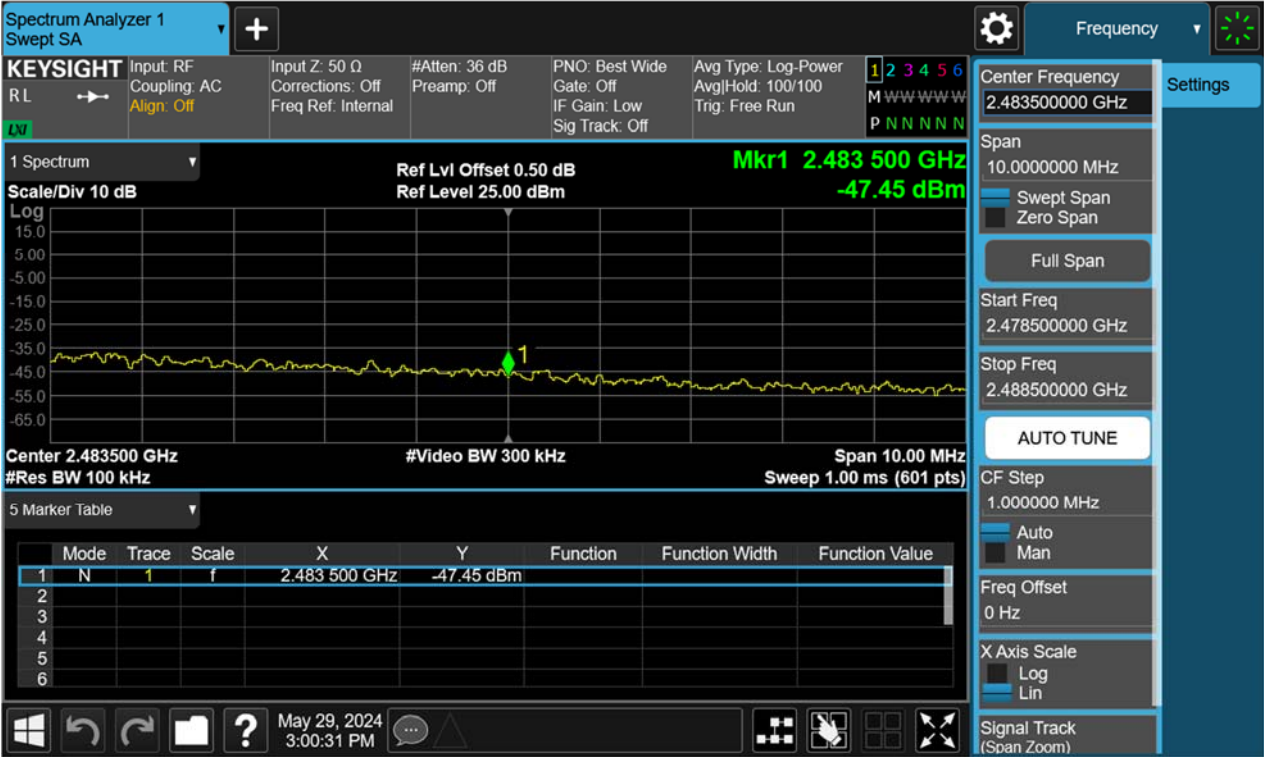
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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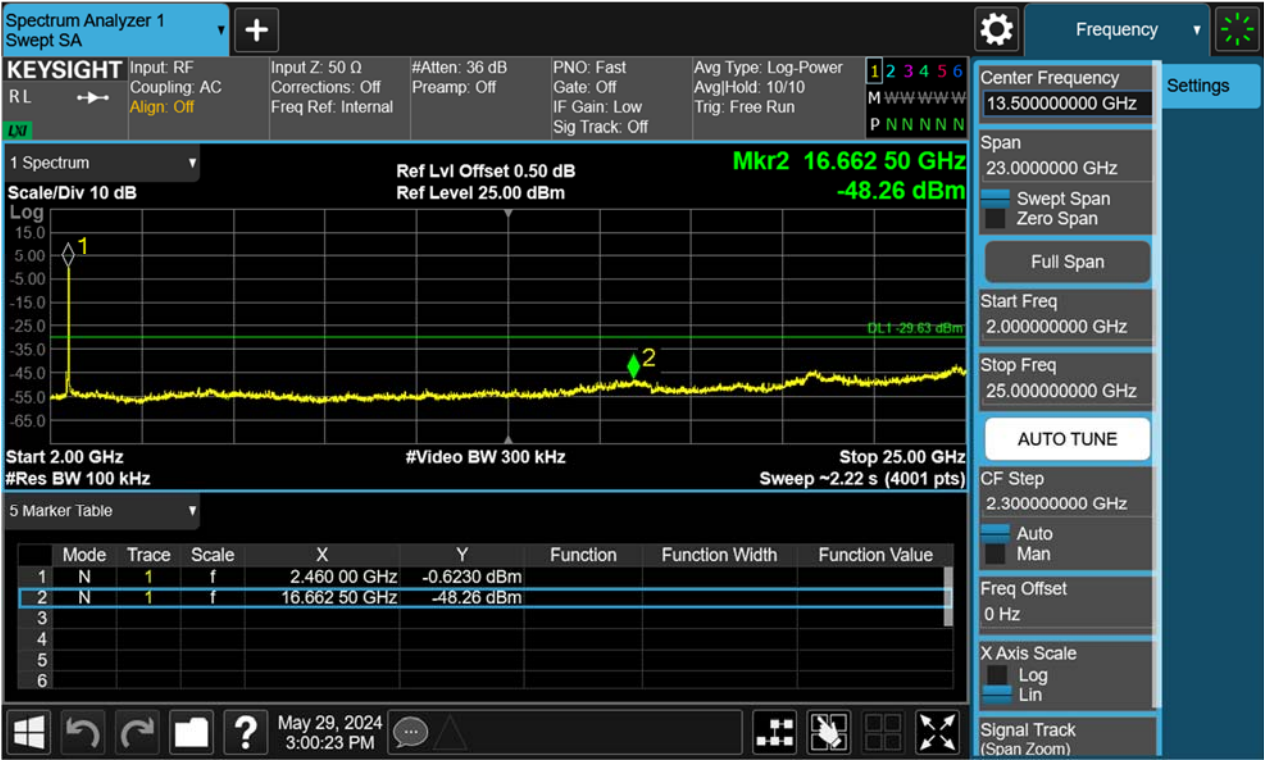
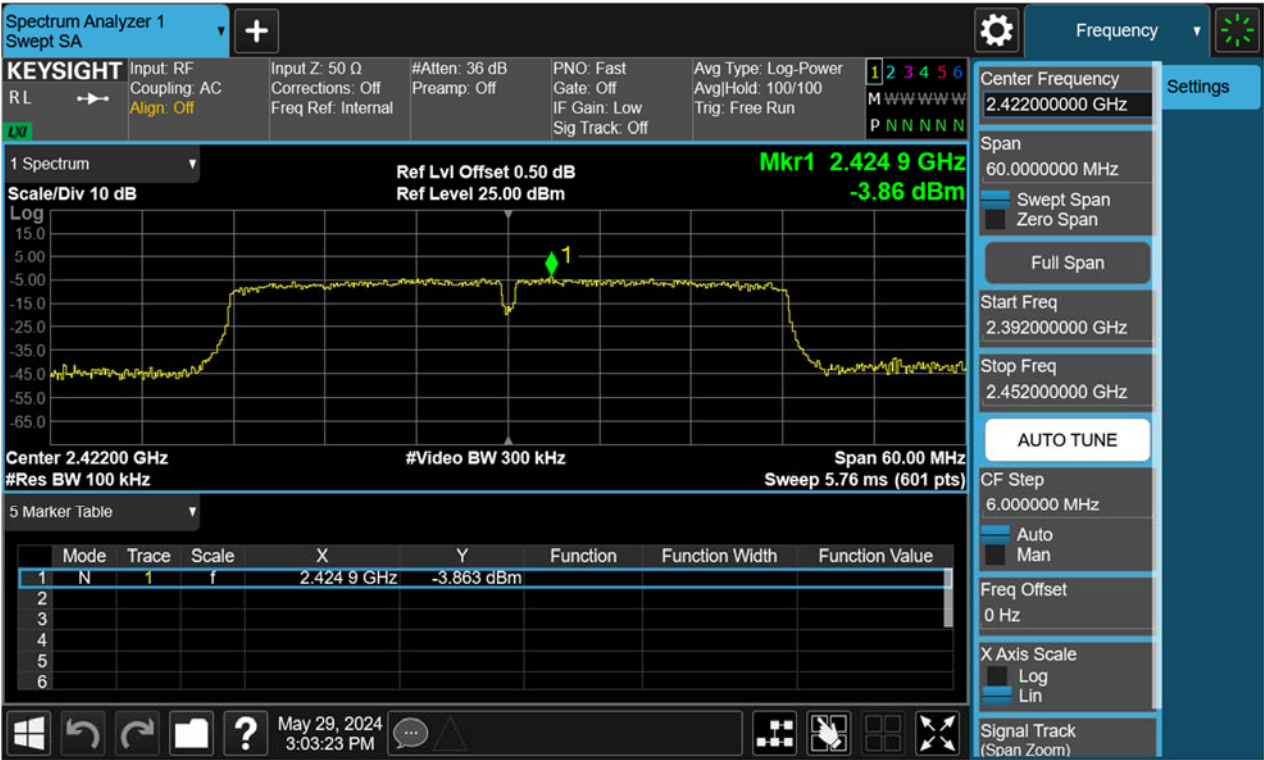


Figure 34: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2422MHz Carrier Level



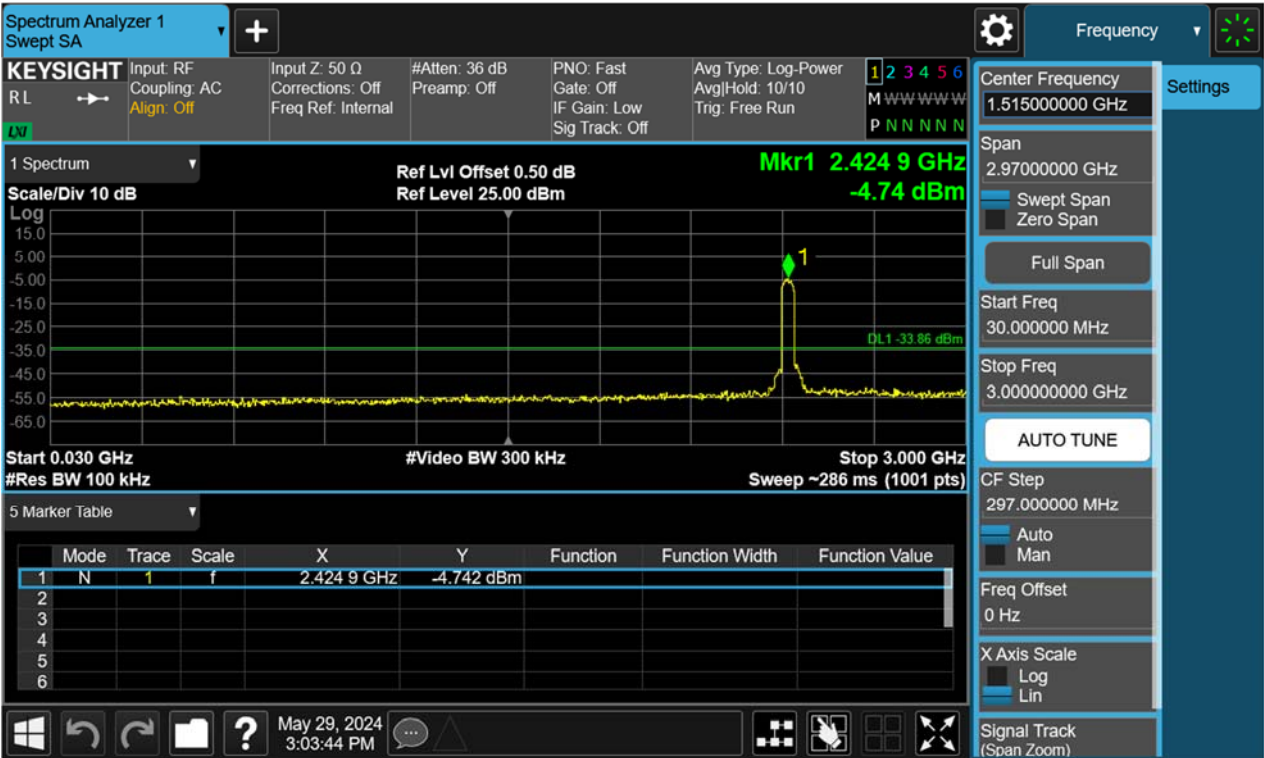
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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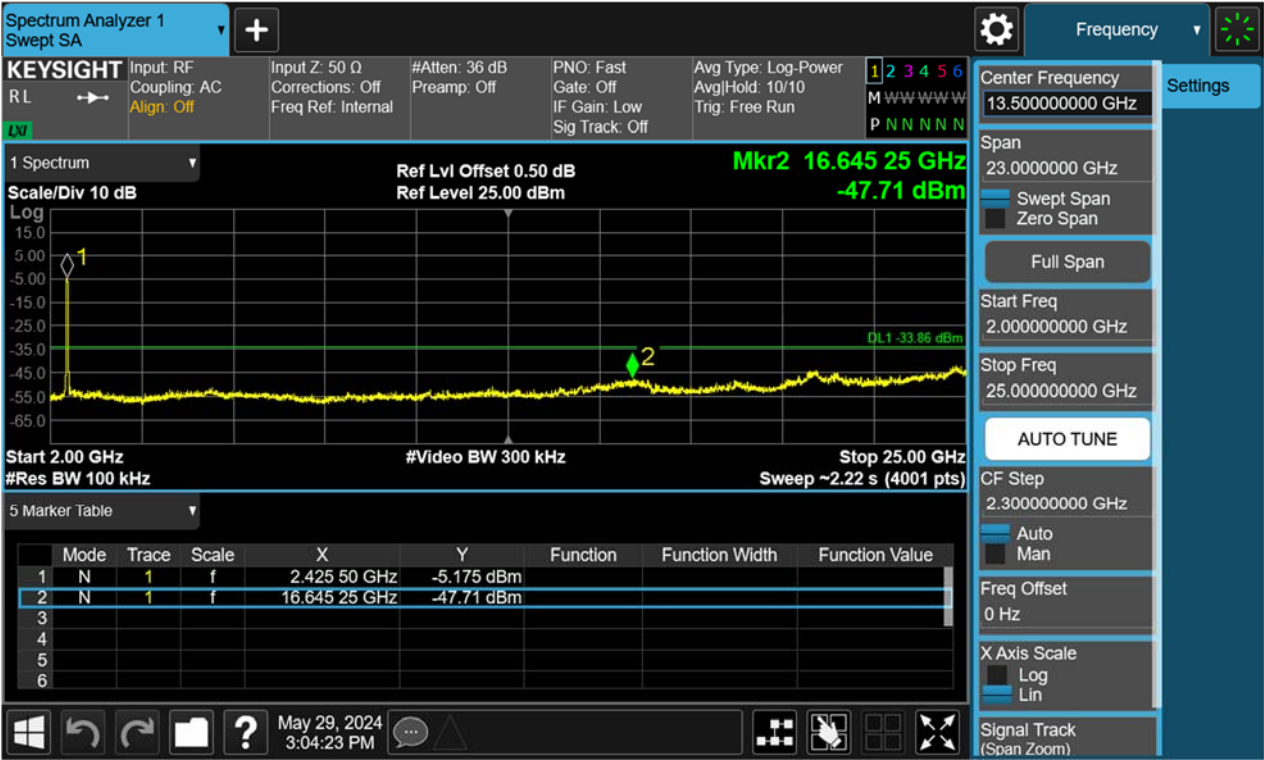
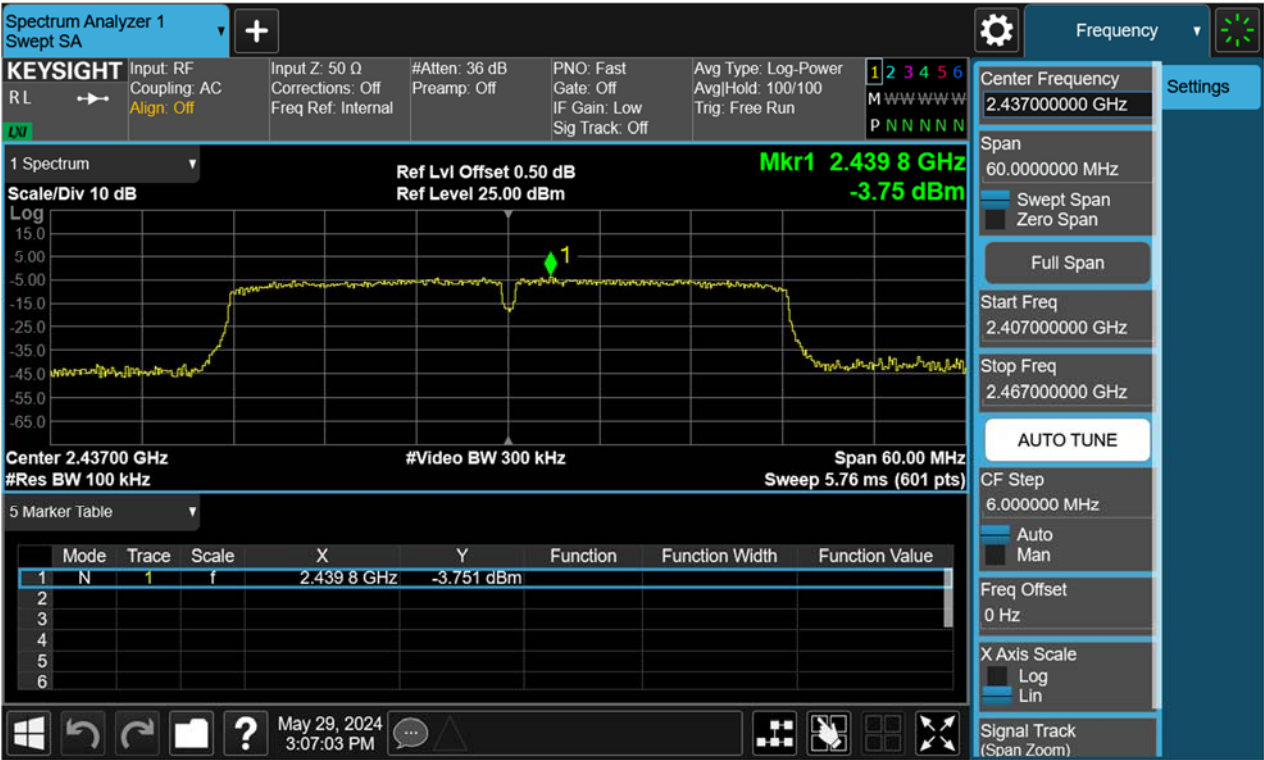


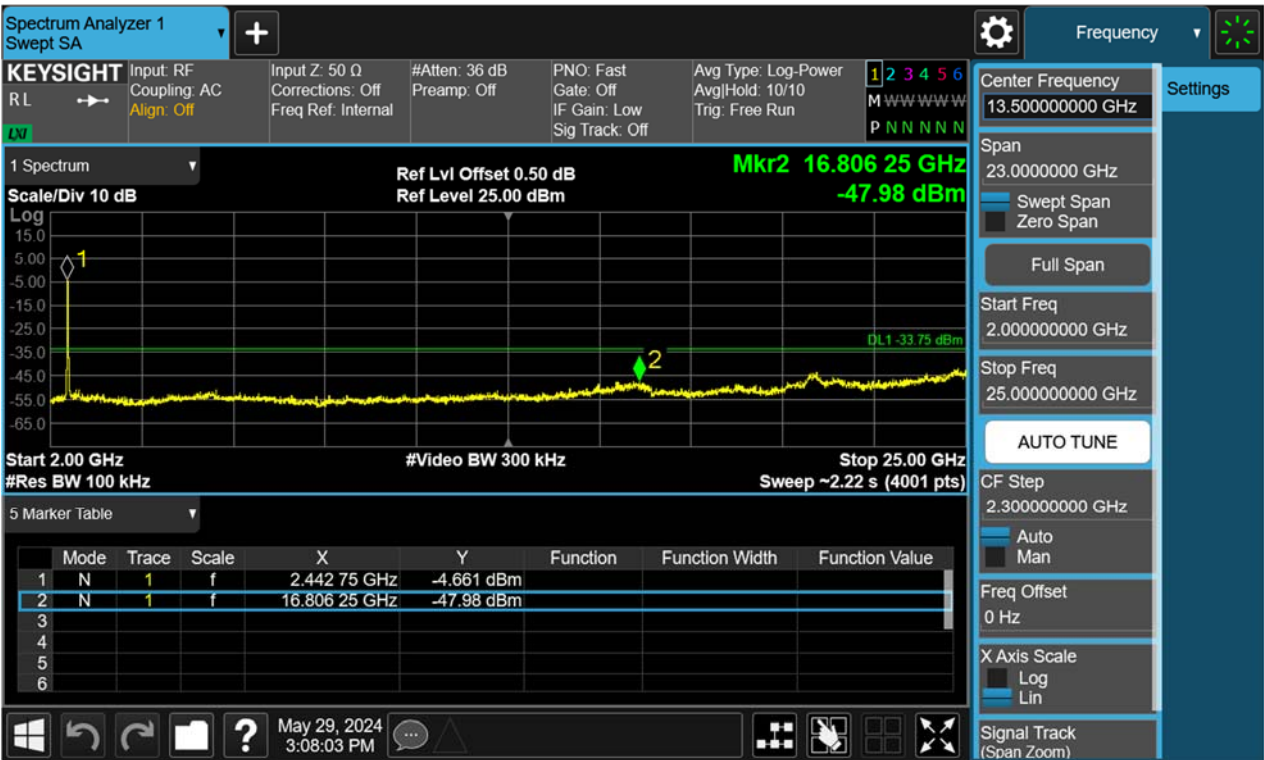
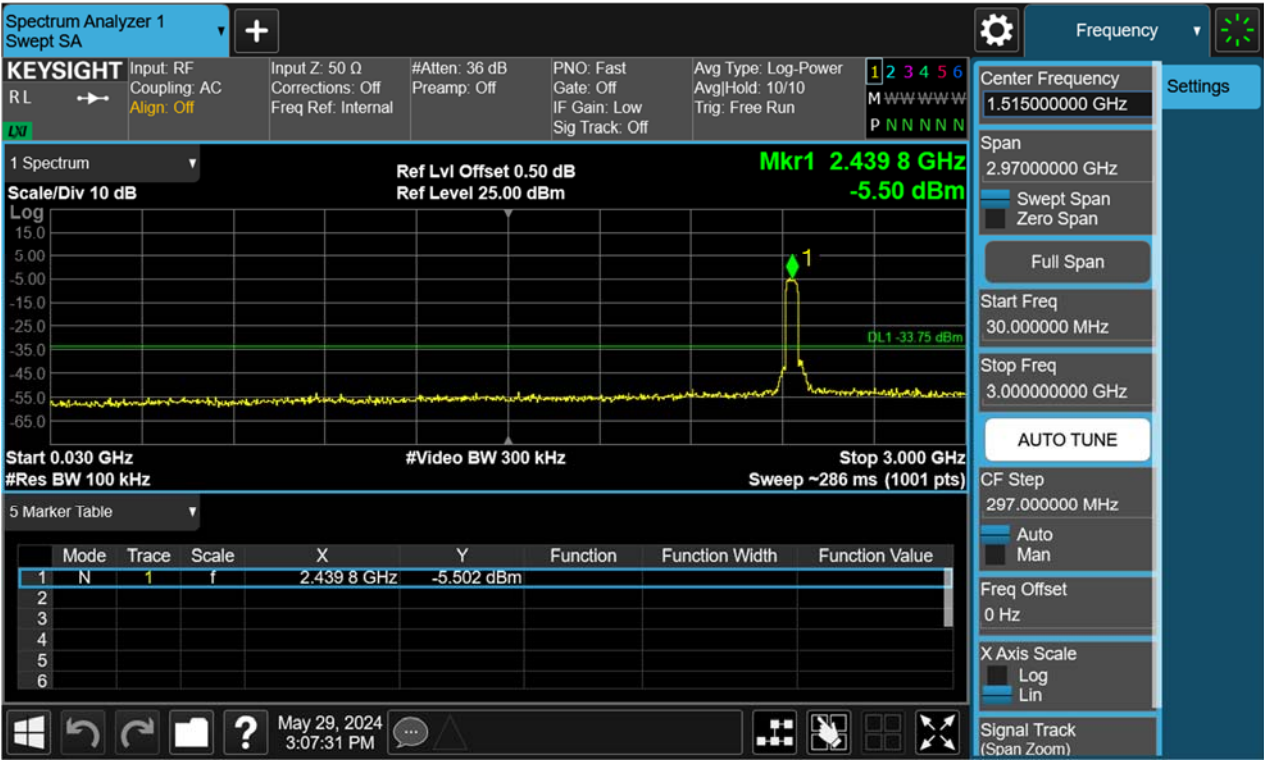
Figure 35: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2437MHz Carrier Level



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Conducted spurious emissions 30MHz-25GHz



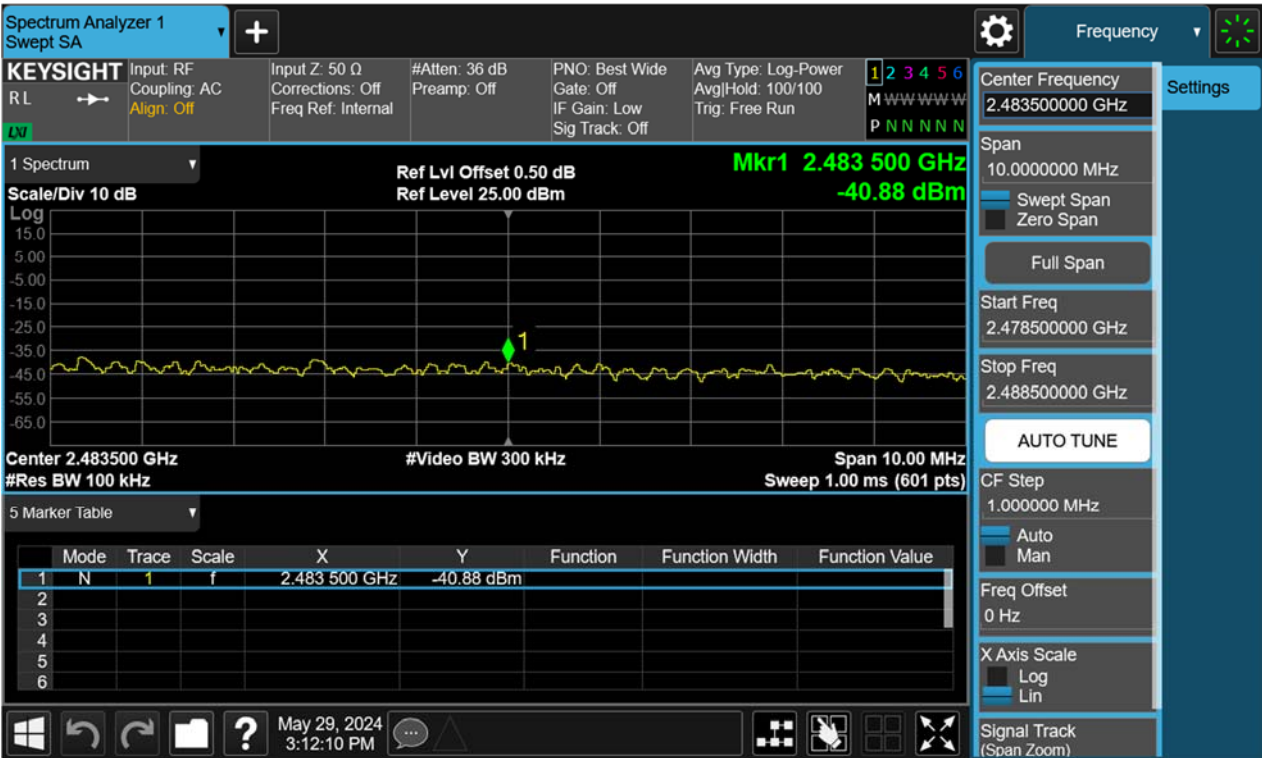
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Figure 36: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2452MHz Carrier Level



Band Edge



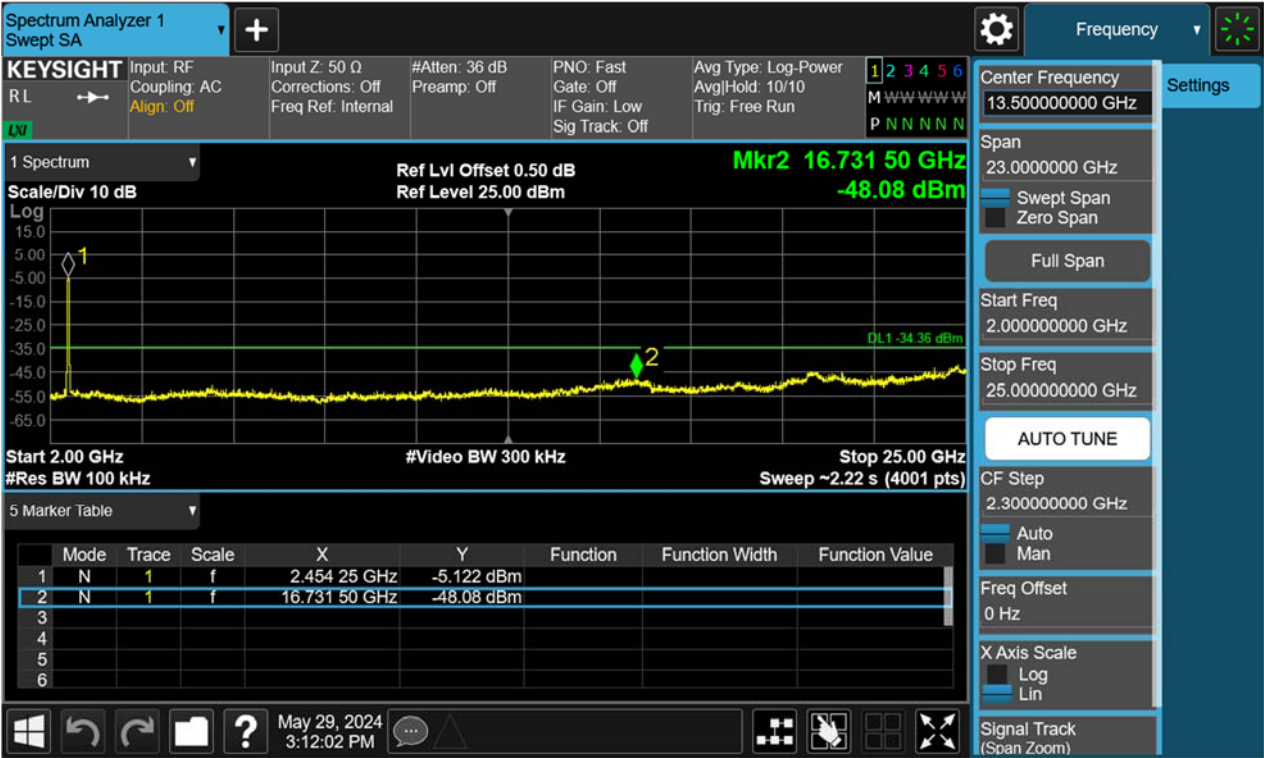
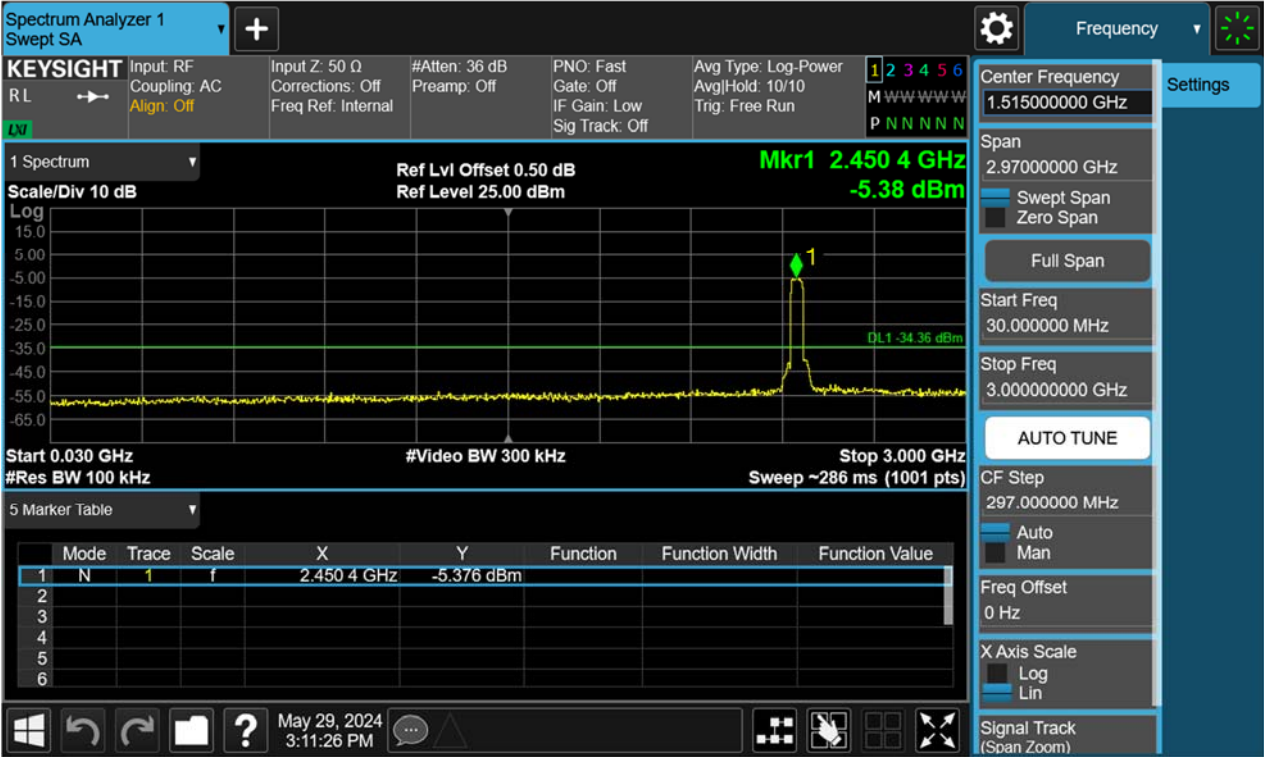
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Conducted spurious emissions 30MHz-25GHz



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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 : 24°C
Relative humidity : 51%

Notes

Test plots please refer to the annex document “SHE24050068-01CE 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.

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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	: 24°C
Relative humidity	: 51%

Notes:

1. Test plots please refer to the annex document “SHE24050068-01CE 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.

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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	: 24.2°C
Relative humidity	: 47%

For details refer to following test plot.

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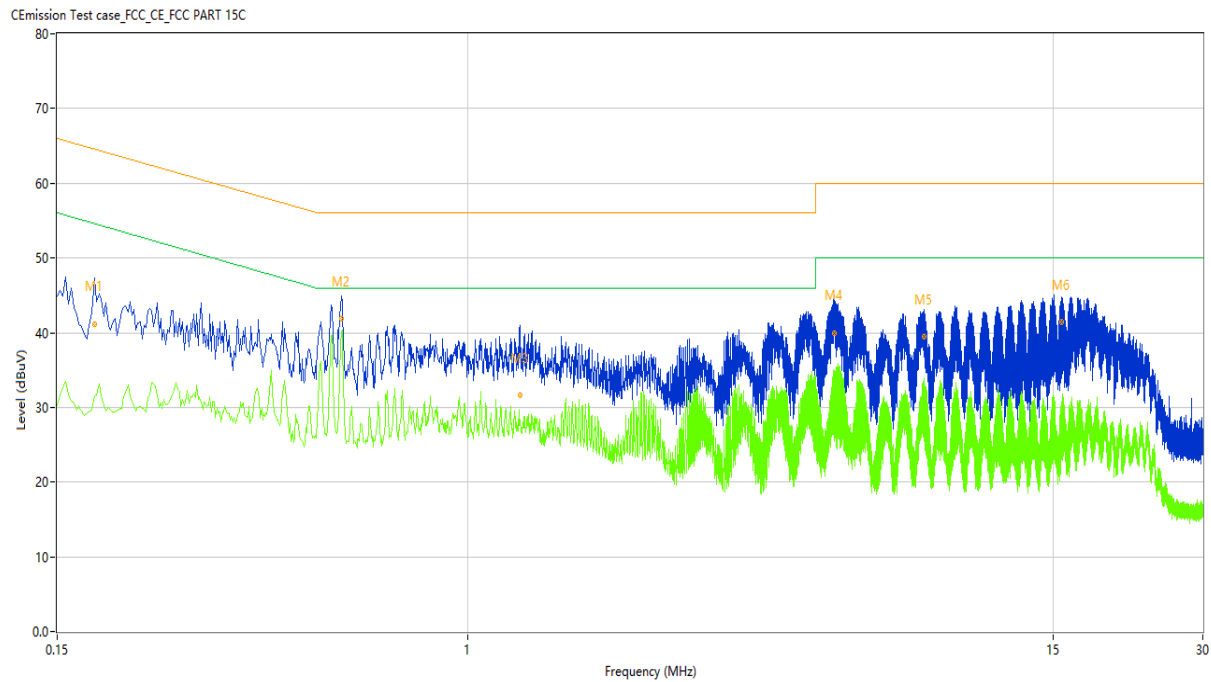
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Note: All test modes had been pre-tested, but only the 802.11b at low channel is the worst case and recorded in the report.

USB Input:

Figure 37: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.178	45.98	9.93	64.58	18.60	Peak	L	Pass
1*	0.178	41.14	9.93	64.58	23.44	QP	L	Pass
1**	0.178	31.52	9.93	54.58	23.06	AV	L	Pass
2	0.558	44.04	9.96	56.00	11.96	Peak	L	Pass
2*	0.558	41.89	9.96	56.00	14.11	QP	L	Pass
2**	0.558	40.10	9.96	46.00	5.90	AV	L	Pass
3	1.278	38.37	9.84	56.00	17.63	Peak	L	Pass
3*	1.278	31.67	9.84	56.00	24.33	QP	L	Pass
3**	1.278	28.10	9.84	46.00	17.90	AV	L	Pass
4	5.458	44.86	9.81	60.00	15.14	Peak	L	Pass
4*	5.458	39.97	9.81	60.00	20.03	QP	L	Pass
4**	5.458	34.88	9.81	50.00	15.12	AV	L	Pass
5	8.258	43.20	9.74	60.00	16.80	Peak	L	Pass
5*	8.258	39.45	9.74	60.00	20.55	QP	L	Pass
5**	8.258	33.94	9.74	50.00	16.06	AV	L	Pass
6	15.606	44.93	9.51	60.00	15.07	Peak	L	Pass
6*	15.606	41.43	9.51	60.00	18.57	QP	L	Pass
6**	15.606	29.82	9.51	50.00	20.18	AV	L	Pass

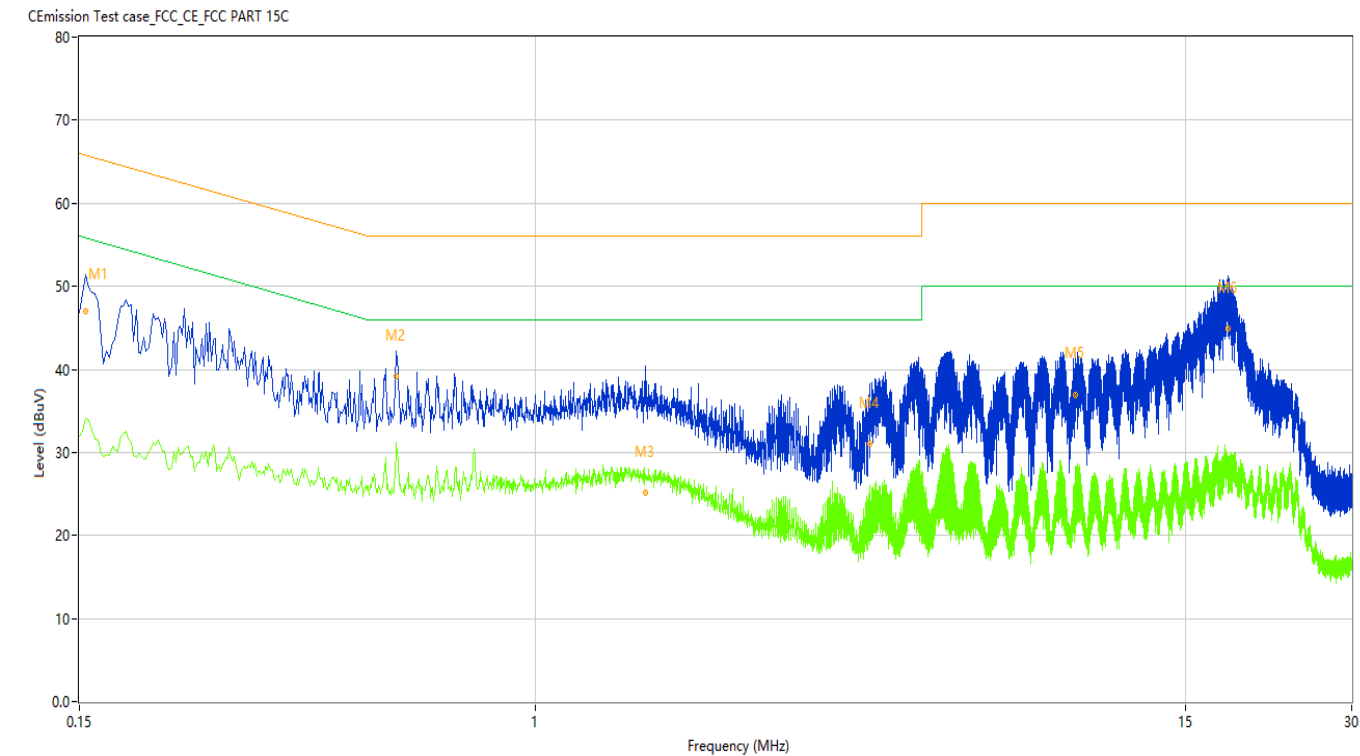
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Figure 38: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.154	49.47	10.02	65.78	16.31	Peak	N	Pass
1*	0.154	47.07	10.02	65.78	18.71	QP	N	Pass
1**	0.154	34.01	10.02	55.78	21.77	AV	N	Pass
2	0.560	41.97	10.06	56.00	14.03	Peak	N	Pass
2*	0.560	39.20	10.06	56.00	16.80	QP	N	Pass
2**	0.560	29.23	10.06	46.00	16.77	AV	N	Pass
3	1.586	33.61	9.94	56.00	22.39	Peak	N	Pass
3*	1.586	25.15	9.94	56.00	30.85	QP	N	Pass
3**	1.586	27.15	9.94	46.00	18.85	AV	N	Pass
4	4.036	37.49	9.87	56.00	18.51	Peak	N	Pass
4*	4.036	31.10	9.87	56.00	24.90	QP	N	Pass
4**	4.036	23.93	9.87	46.00	22.07	AV	N	Pass
5	9.502	41.74	9.77	60.00	18.26	Peak	N	Pass
5*	9.502	36.96	9.77	60.00	23.04	QP	N	Pass
5**	9.502	27.00	9.77	50.00	23.00	AV	N	Pass
6	17.936	51.27	9.51	60.00	8.73	Peak	N	Pass
6*	17.936	44.87	9.51	60.00	15.13	QP	N	Pass
6**	17.936	28.87	9.51	50.00	21.13	AV	N	Pass

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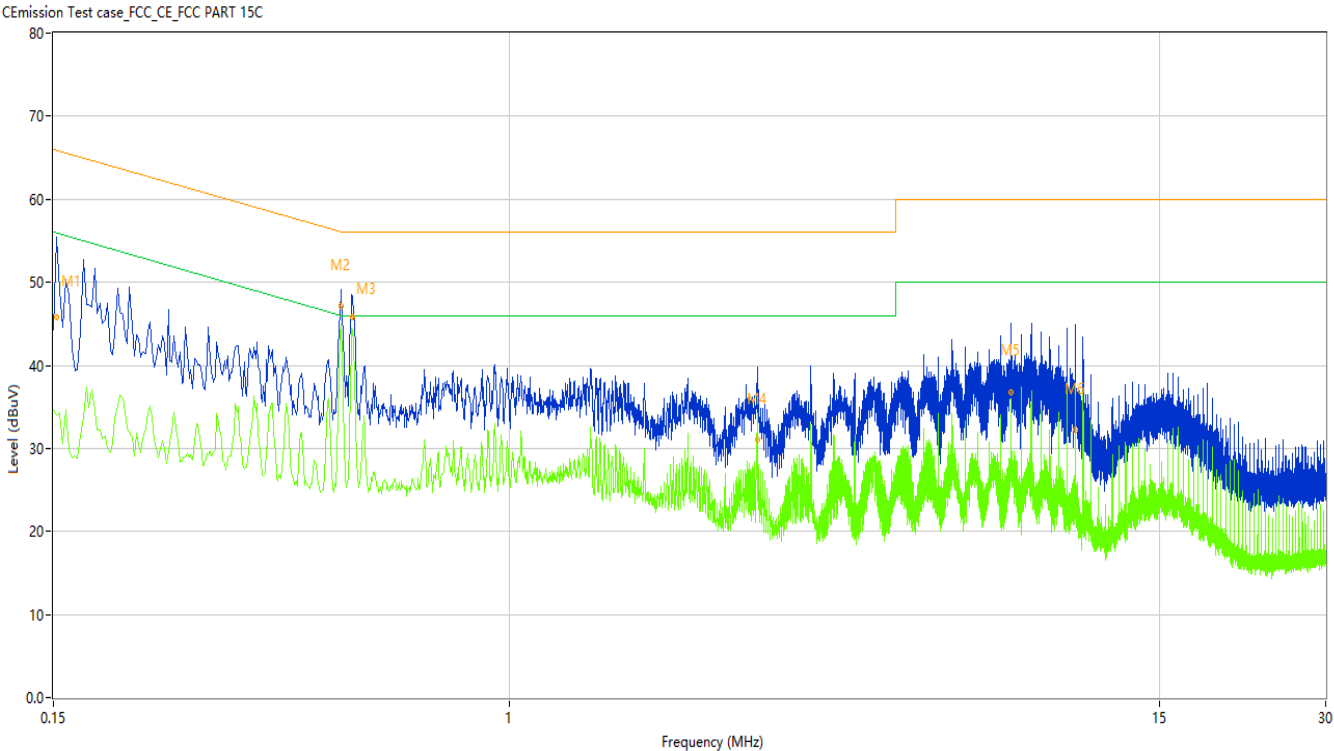
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POE Input:

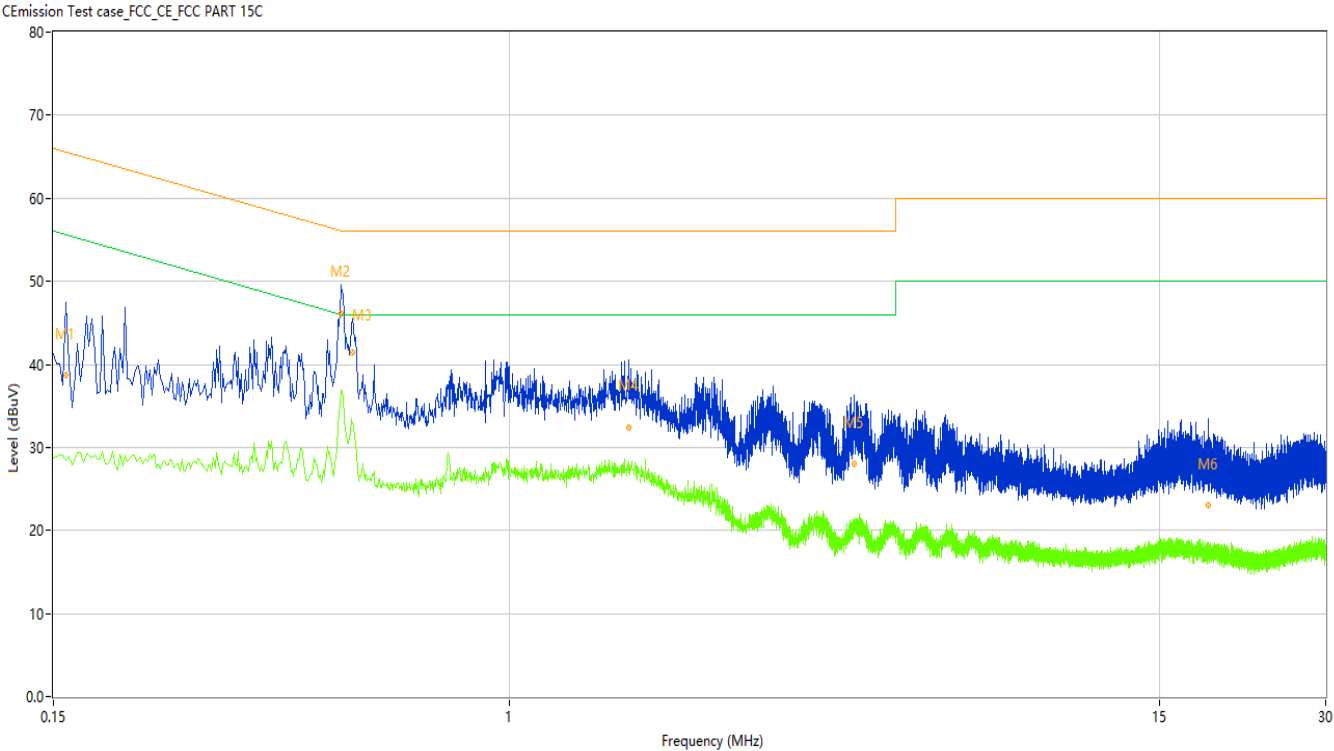
Figure 39: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	59.18	9.92	65.89	6.71	Peak	L	Pass
1*	0.152	45.79	9.92	65.89	20.10	QP	L	Pass
1**	0.152	34.07	9.92	55.89	21.82	AV	L	Pass
2	0.496	49.94	9.96	56.07	6.13	Peak	L	Pass
2*	0.496	47.19	9.96	56.07	8.88	QP	L	Pass
2**	0.496	44.93	9.96	46.07	1.14	AV	L	Pass
3	0.522	48.29	9.96	56.00	7.71	Peak	L	Pass
3*	0.522	45.82	9.96	56.00	10.18	QP	L	Pass
3**	0.522	44.32	9.96	46.00	1.68	AV	L	Pass
4	2.810	35.83	9.84	56.00	20.17	Peak	L	Pass
4*	2.810	31.05	9.84	56.00	24.95	QP	L	Pass
4**	2.810	33.40	9.84	46.00	12.60	AV	L	Pass
5	8.098	40.04	9.75	60.00	19.96	Peak	L	Pass
5*	8.098	36.75	9.75	60.00	23.25	QP	L	Pass
5**	8.098	35.94	9.75	50.00	14.06	AV	L	Pass
6	10.570	37.01	9.67	60.00	22.99	Peak	L	Pass
6*	10.570	32.22	9.67	60.00	27.78	QP	L	Pass
6**	10.570	37.59	9.67	50.00	12.41	AV	L	Pass

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Figure 40: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.158	55.54	9.93	65.57	10.03	Peak	N	Pass
1*	0.158	38.68	9.93	65.57	26.89	QP	N	Pass
1**	0.158	28.55	9.93	55.57	27.02	AV	N	Pass
2	0.498	49.89	9.96	56.03	6.14	Peak	N	Pass
2*	0.498	46.12	9.96	56.03	9.91	QP	N	Pass
2**	0.498	36.95	9.96	46.03	9.08	AV	N	Pass
3	0.522	46.05	9.96	56.00	9.95	Peak	N	Pass
3*	0.522	41.44	9.96	56.00	14.56	QP	N	Pass
3**	0.522	32.95	9.96	46.00	13.05	AV	N	Pass
4	1.644	39.09	9.85	56.00	16.91	Peak	N	Pass
4*	1.644	32.33	9.85	56.00	23.67	QP	N	Pass
4**	1.644	28.35	9.85	46.00	17.65	AV	N	Pass
5	4.210	35.08	9.82	56.00	20.92	Peak	N	Pass
5*	4.210	28.04	9.82	56.00	27.96	QP	N	Pass
5**	4.210	20.42	9.82	46.00	25.58	AV	N	Pass
6	18.424	30.66	9.41	60.00	29.34	Peak	N	Pass
6*	18.424	23.11	9.41	60.00	36.89	QP	N	Pass
6**	18.424	17.62	9.41	50.00	32.38	AV	N	Pass