

# TEST REPORT

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## Conducted spurious emissions 30MHz-25GHz



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



## Band Edge



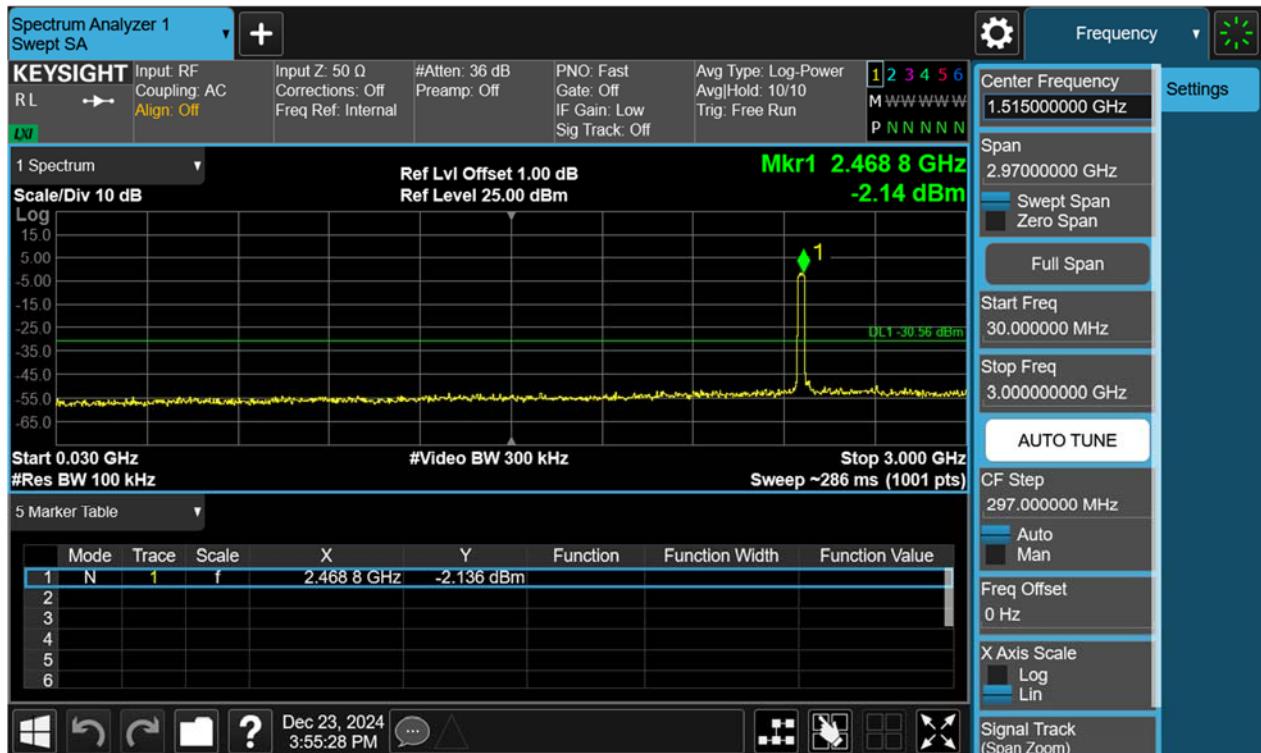
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**Figure 67: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2422MHz Carrier Level**



## Band Edge



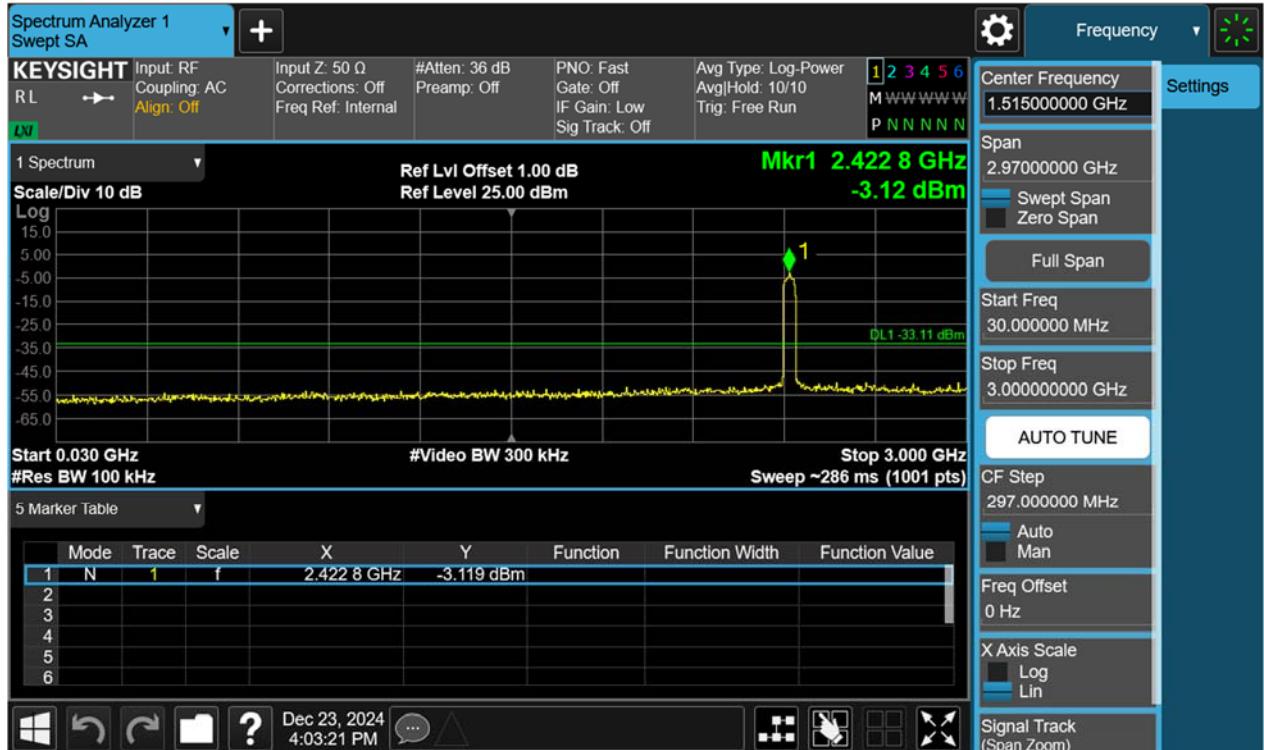
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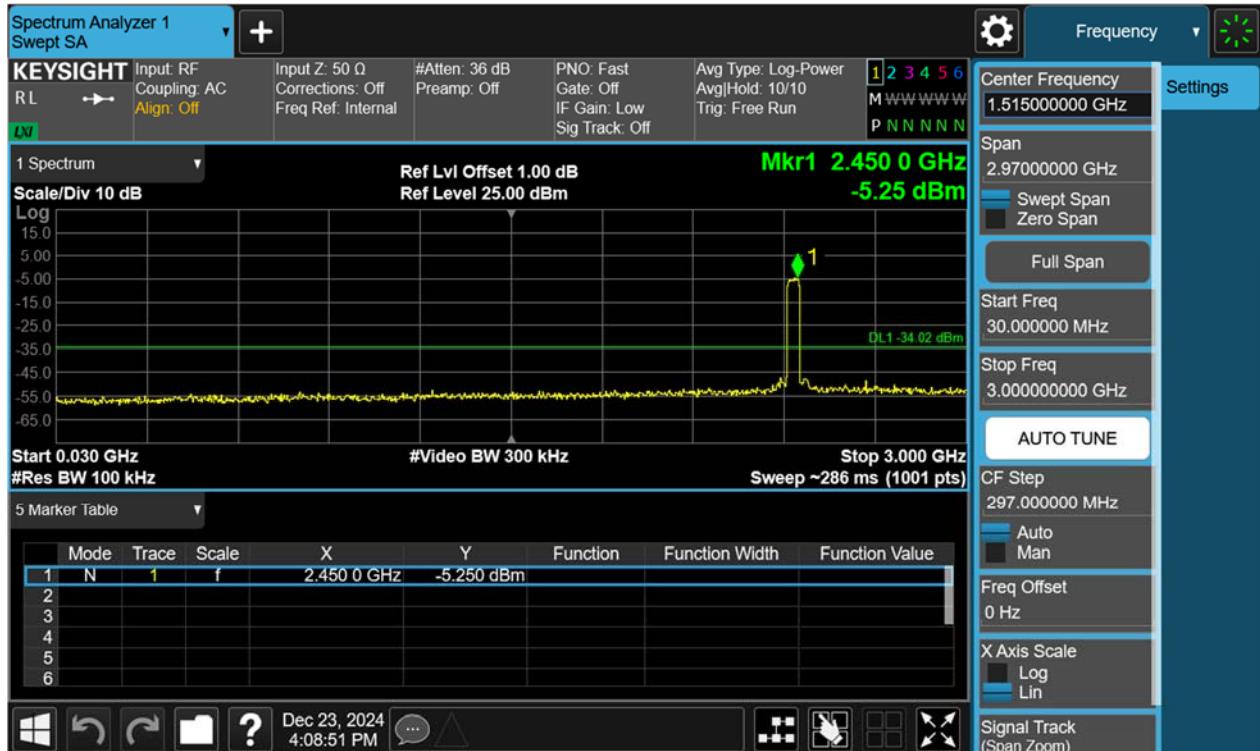
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**Figure 68: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2437MHz Carrier Level**



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



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## Band Edge



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



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## Band Edge



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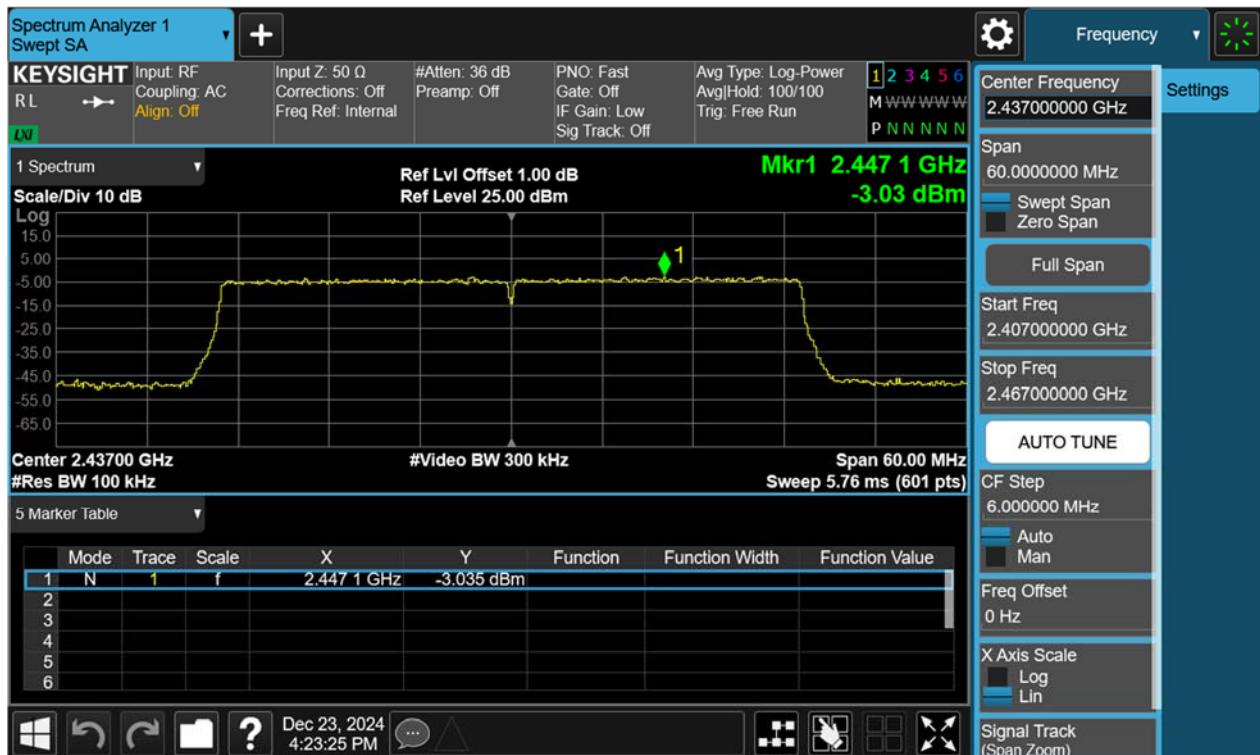
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Figure 71: Conducted Spurious Emission & Authorized-band band-edge, 802.11ax(HE40), 2437MHz Carrier Level



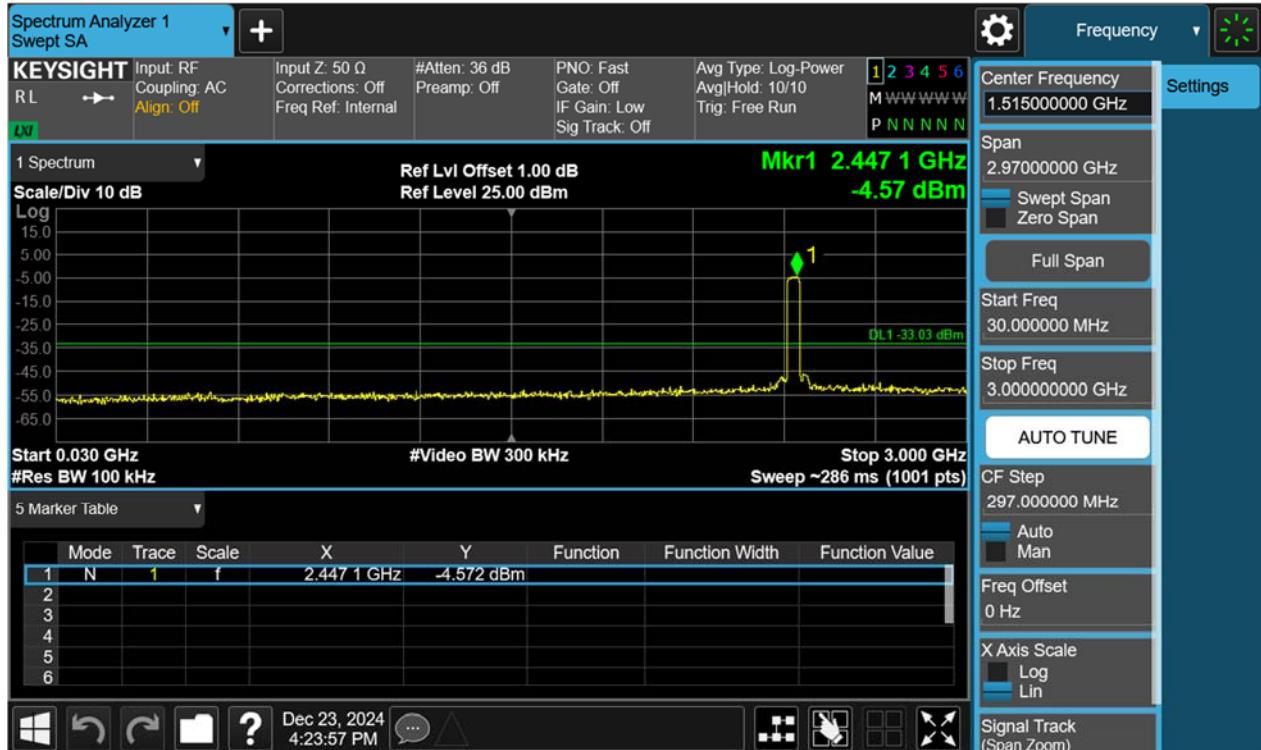
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**Figure 72: Conducted Spurious Emission & Authorized-band band-edge, 802.11ax(HE40), 2452MHz Carrier Level**



## Band Edge



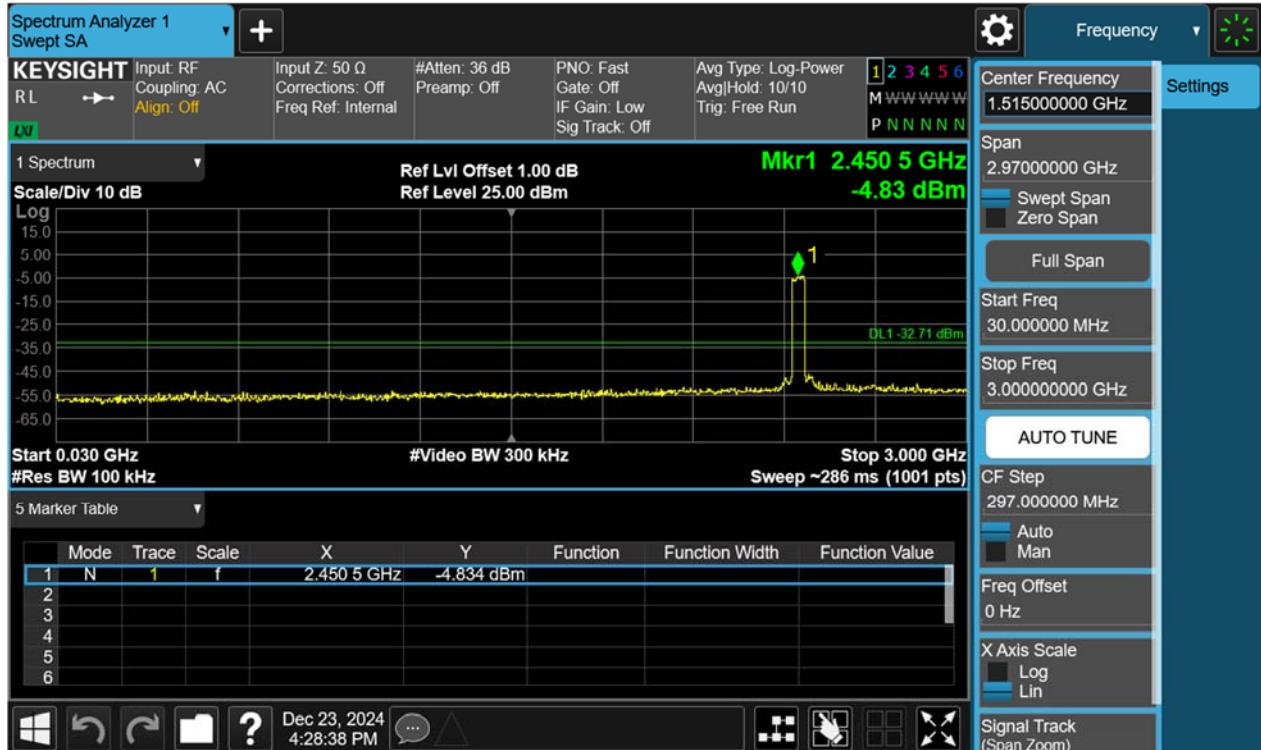
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## 4.1.6 Radiated Emission

**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	:	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.

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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/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".

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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	:	21.6°C
Relative humidity	:	49%

For details refer to following test plot.

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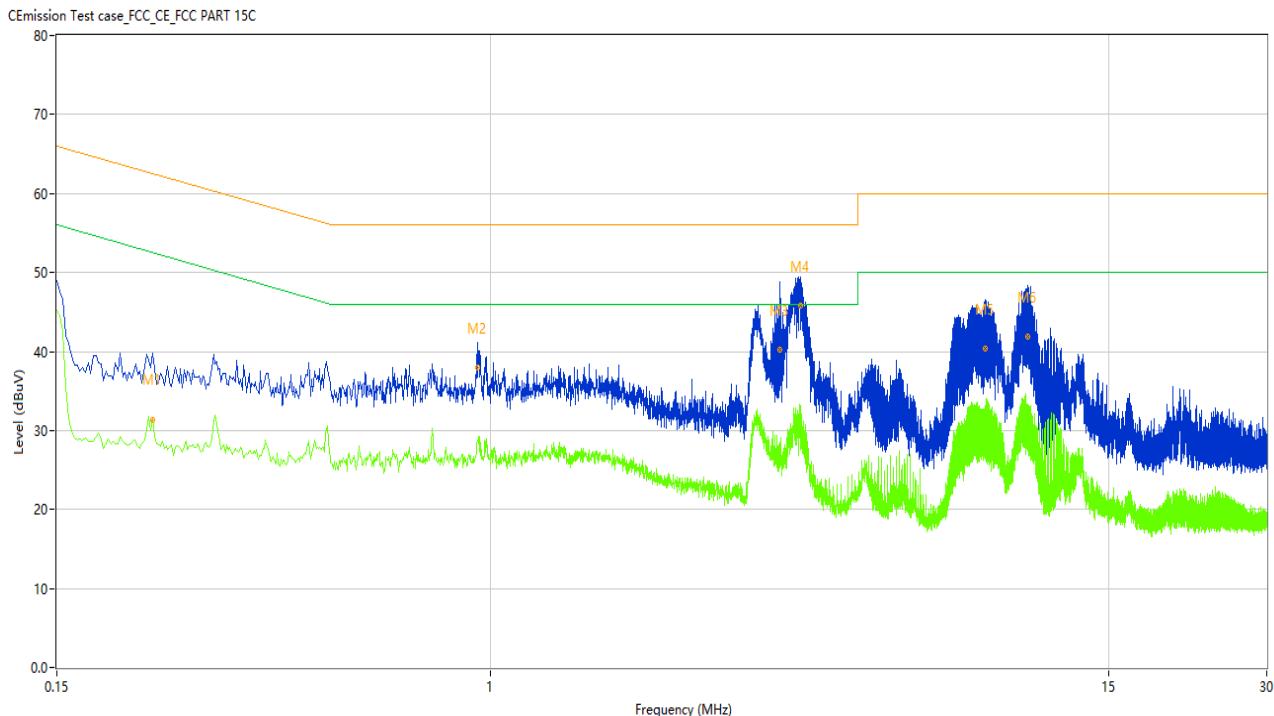
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Note: The all configurations were tested respectively, but only the worst configuration shown here.

**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

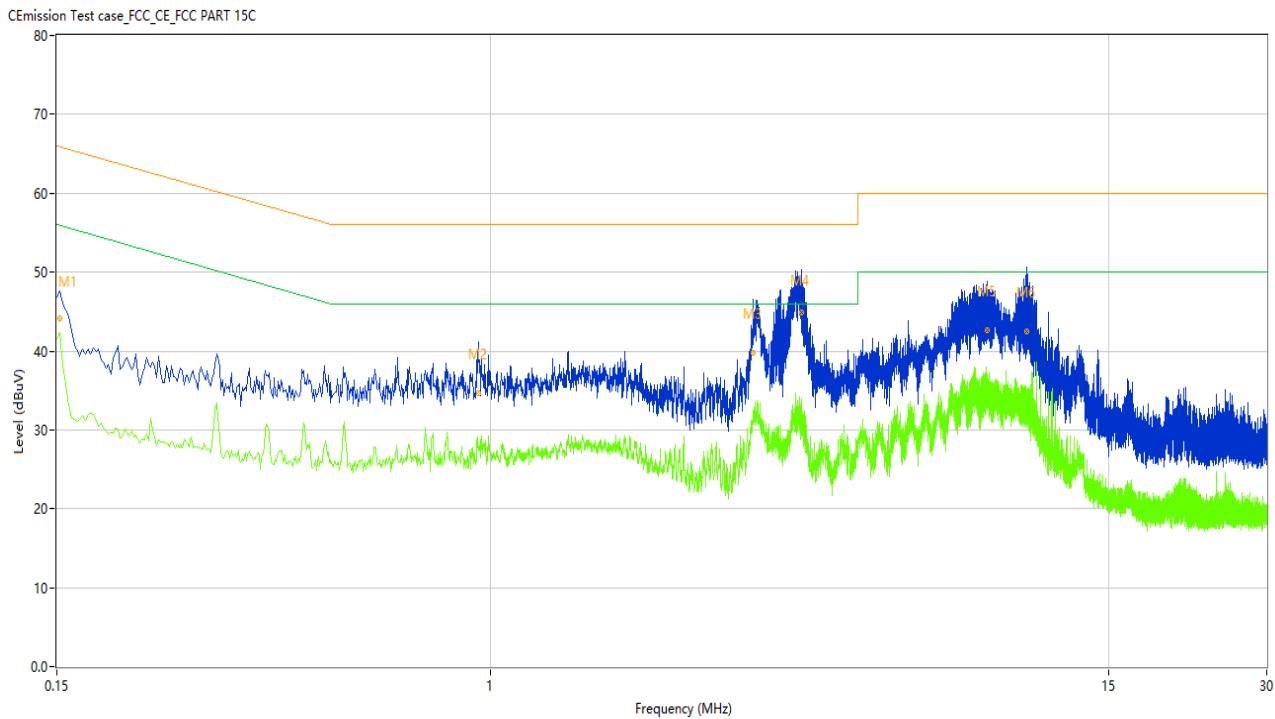
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Figure 94: Conducted Emission on AC Mains, N Phase



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