

TEST REPORT

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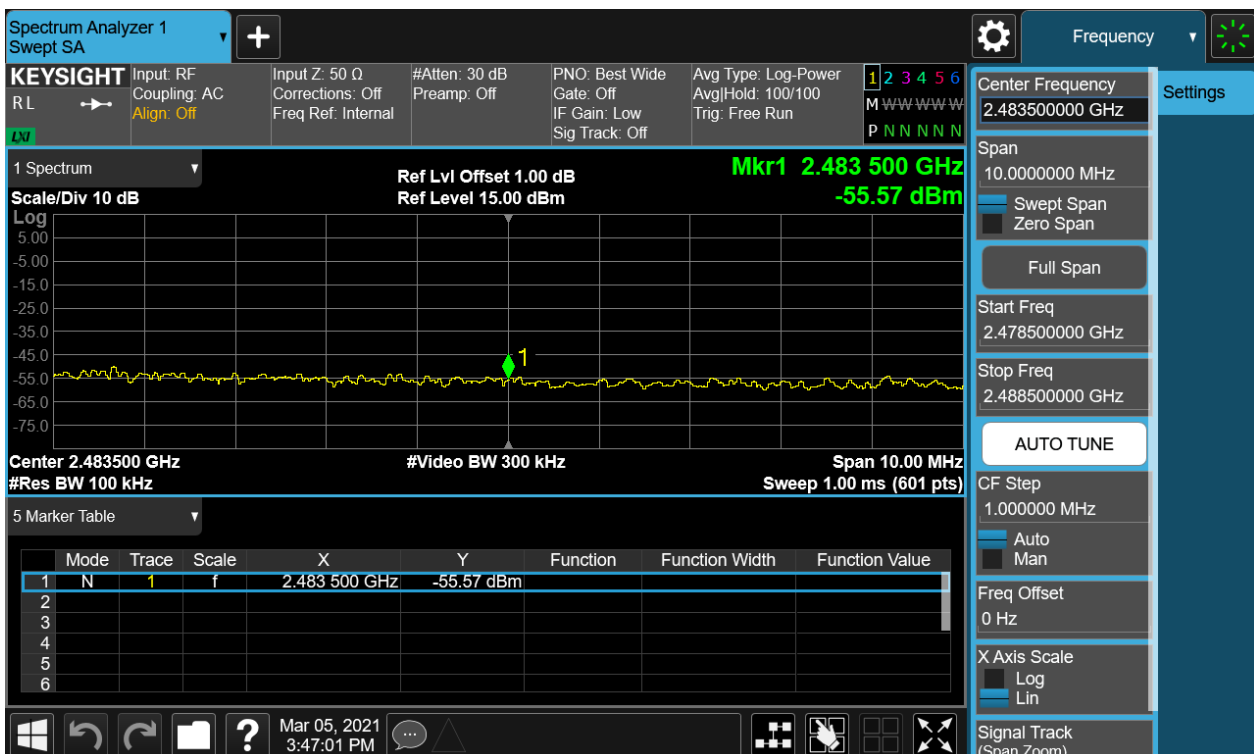
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Figure 33: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2462MHz Carrier Level



Band Edge



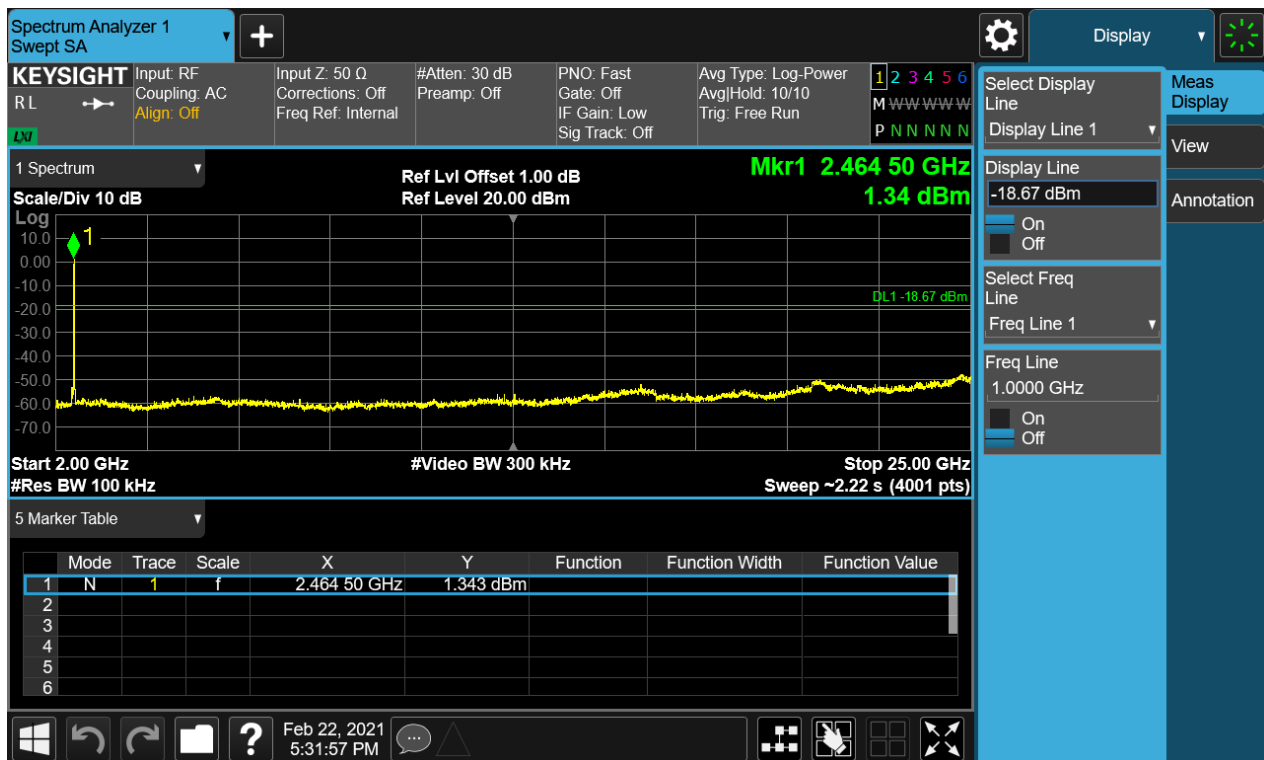
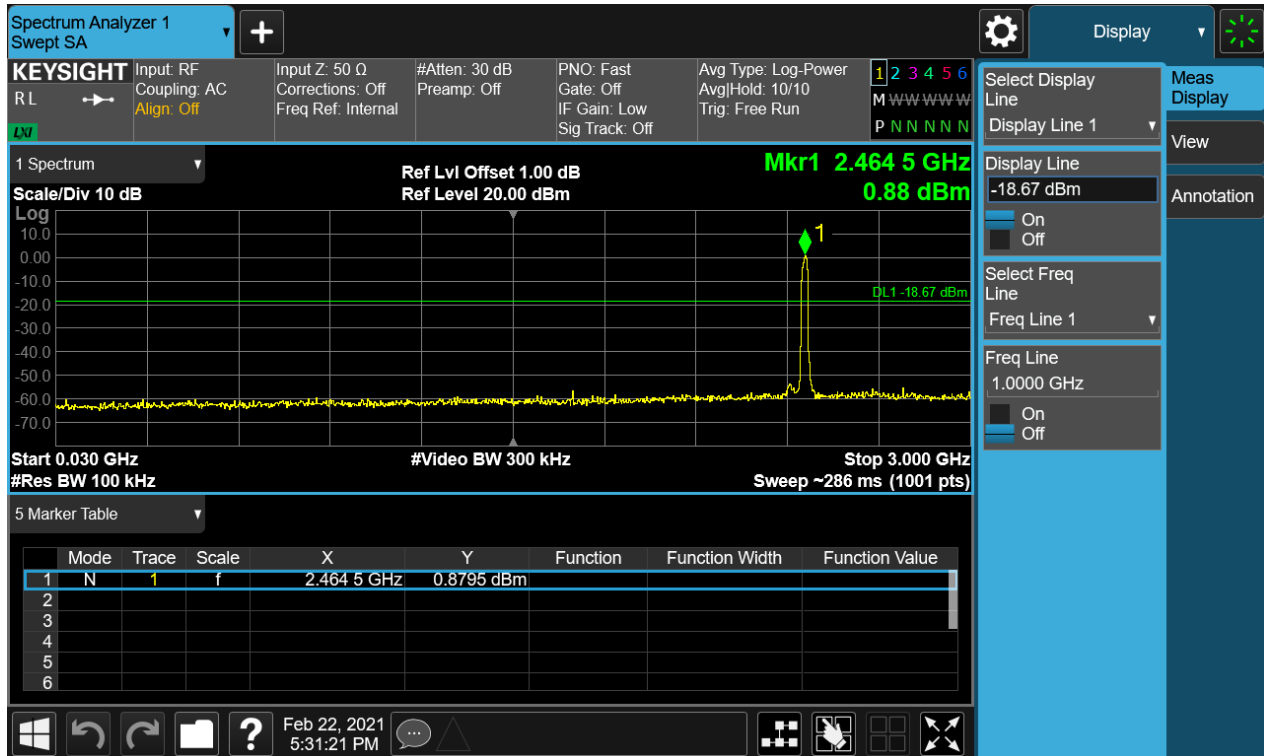
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Conducted spurious emissions 30MHz-25GHz



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



Band Edge



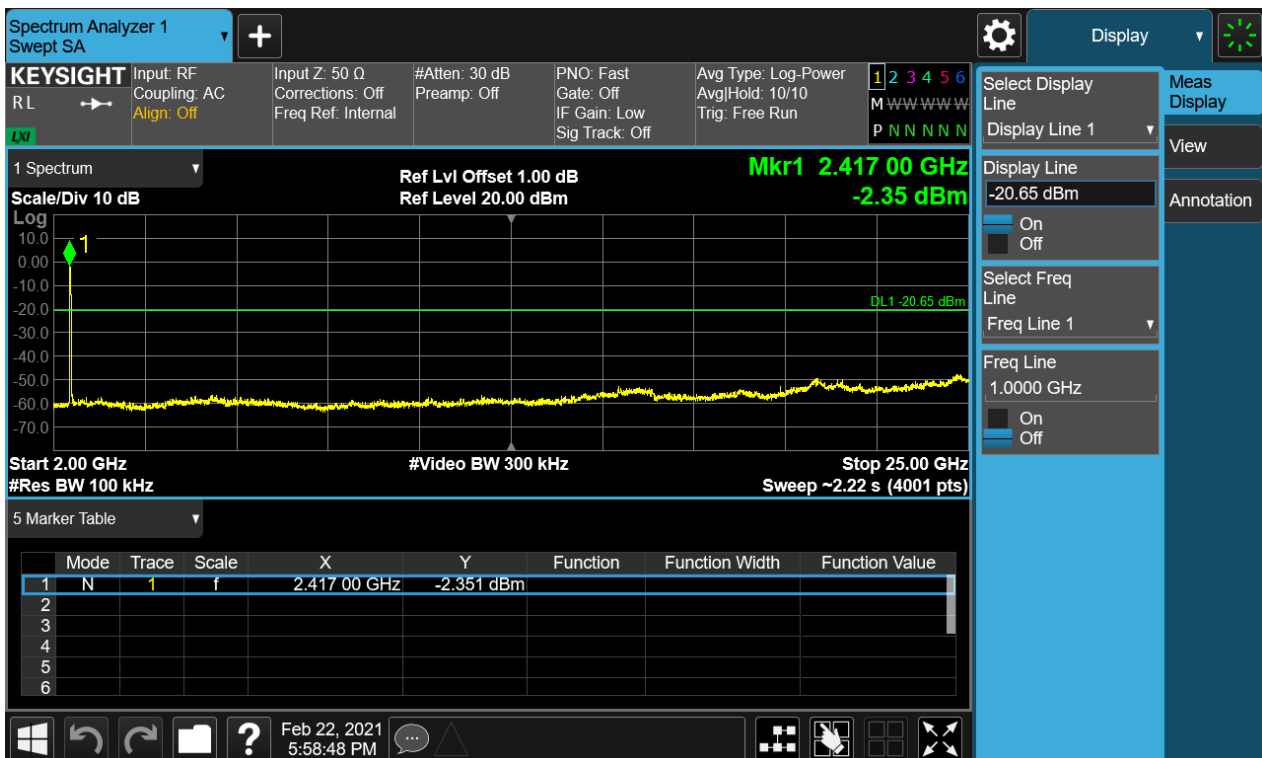
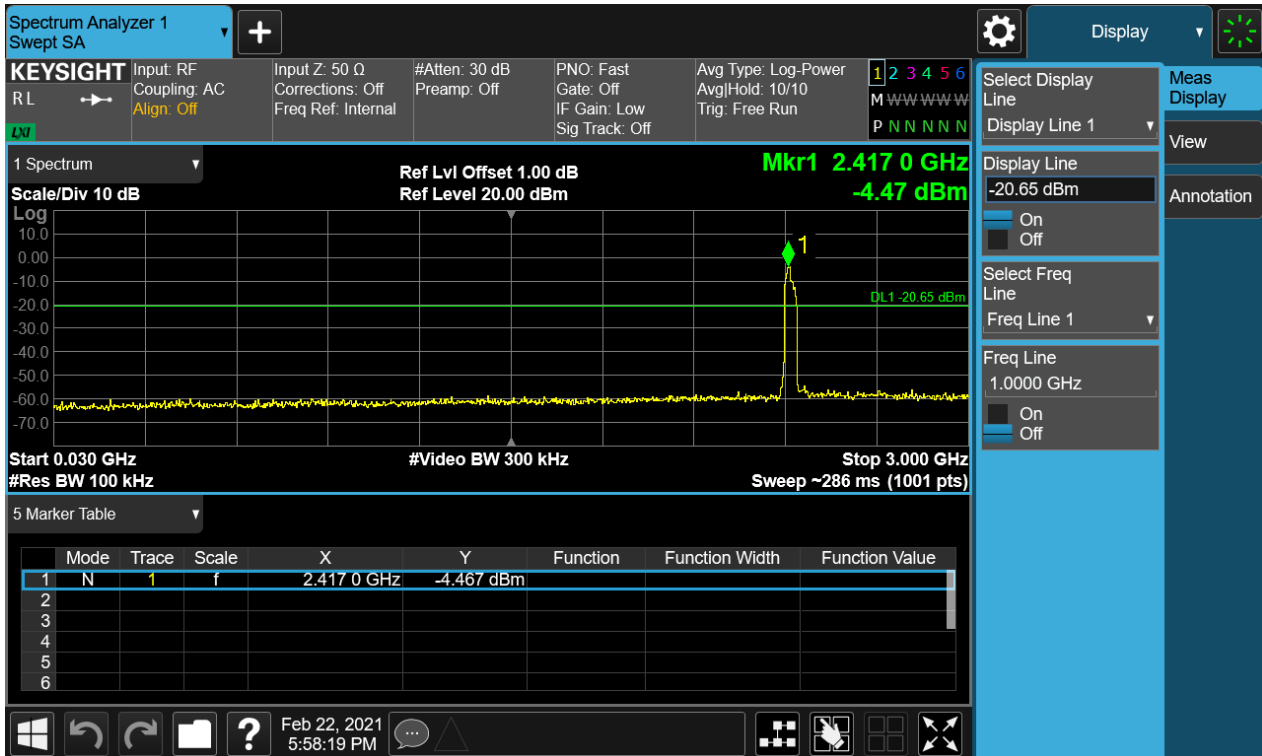
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Conducted spurious emissions 30MHz-25GHz



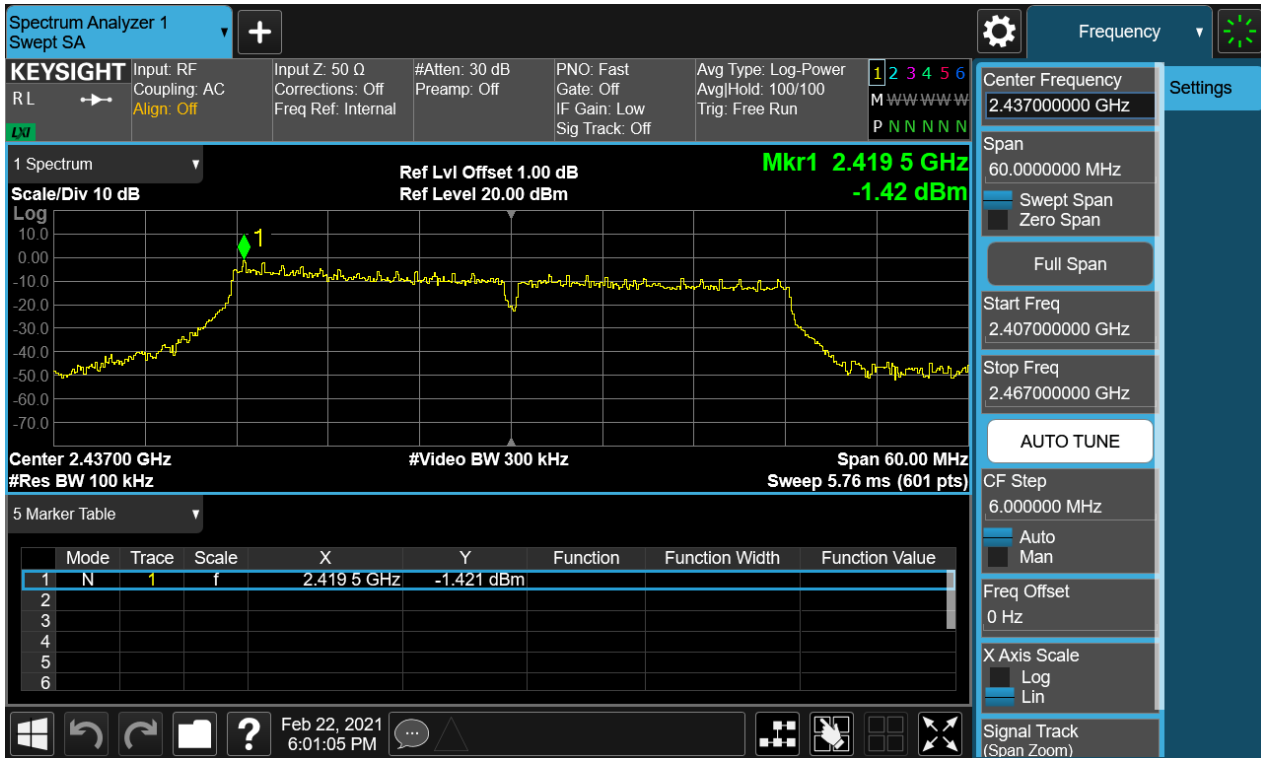
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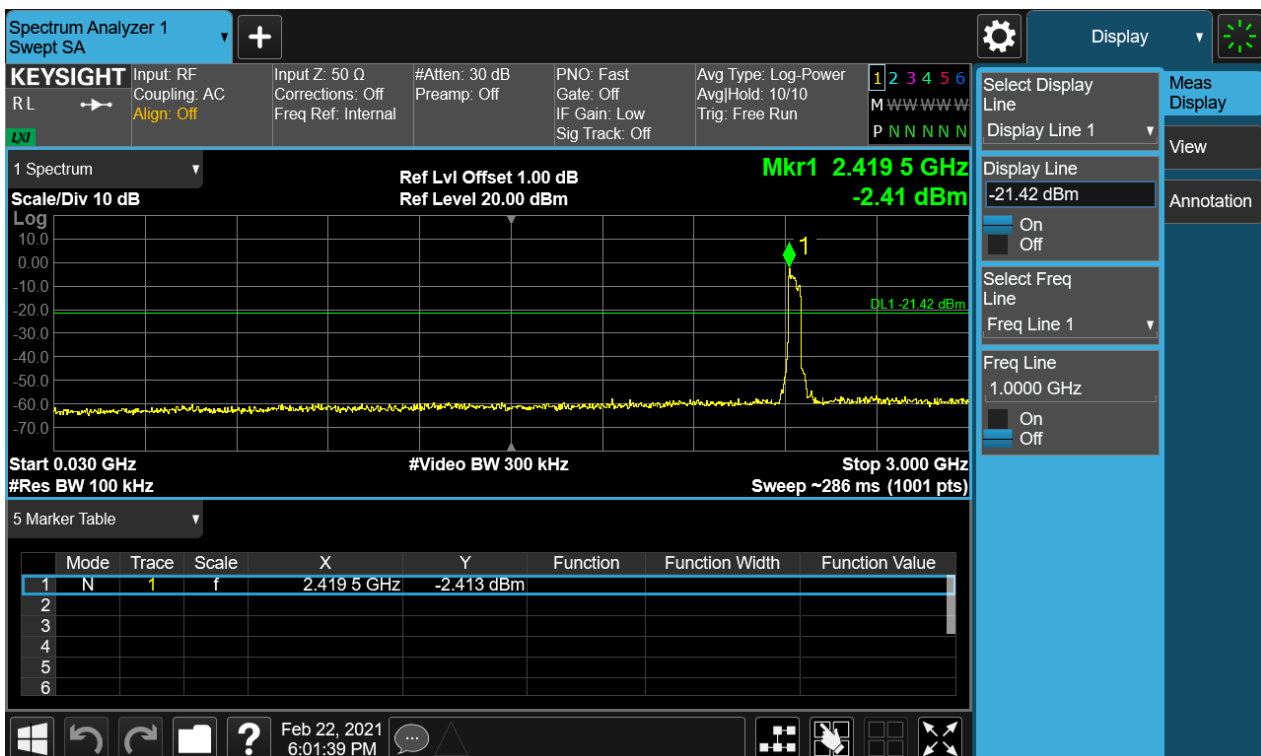
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Figure 35: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



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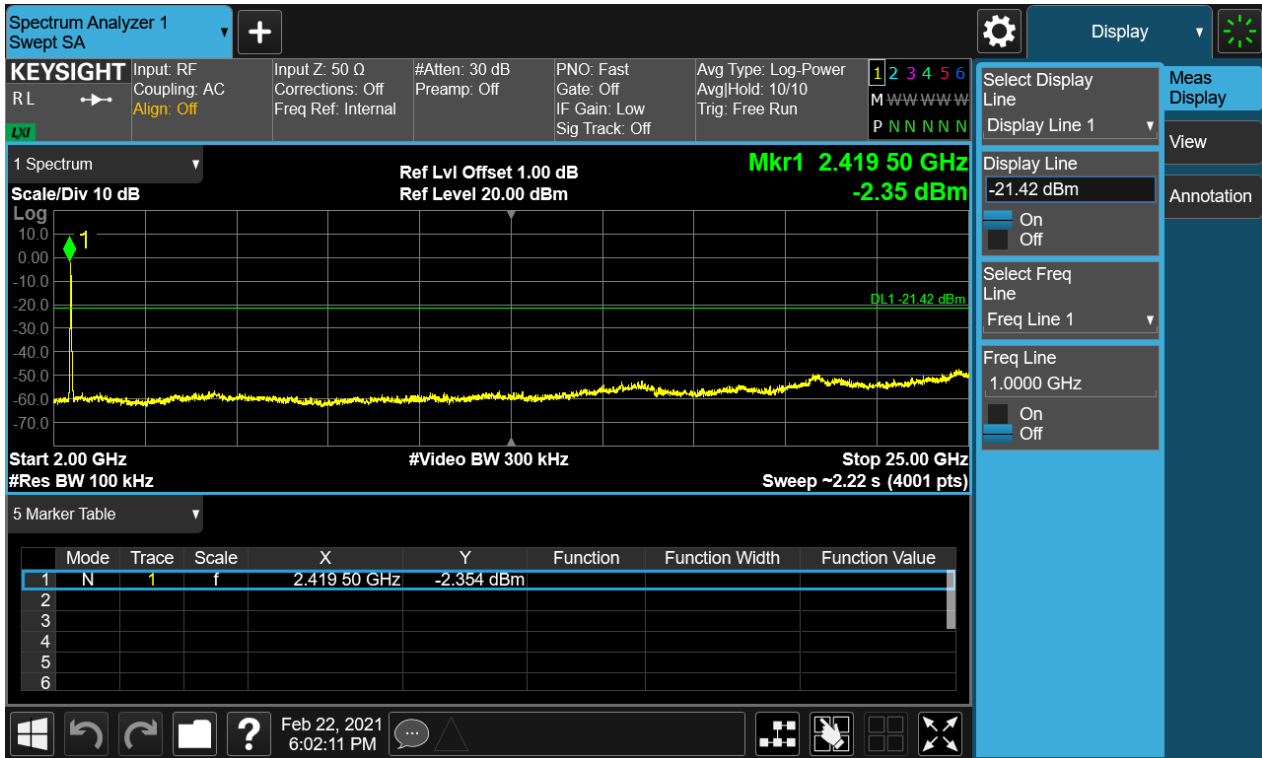


Figure 36: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2452MHz Carrier Level



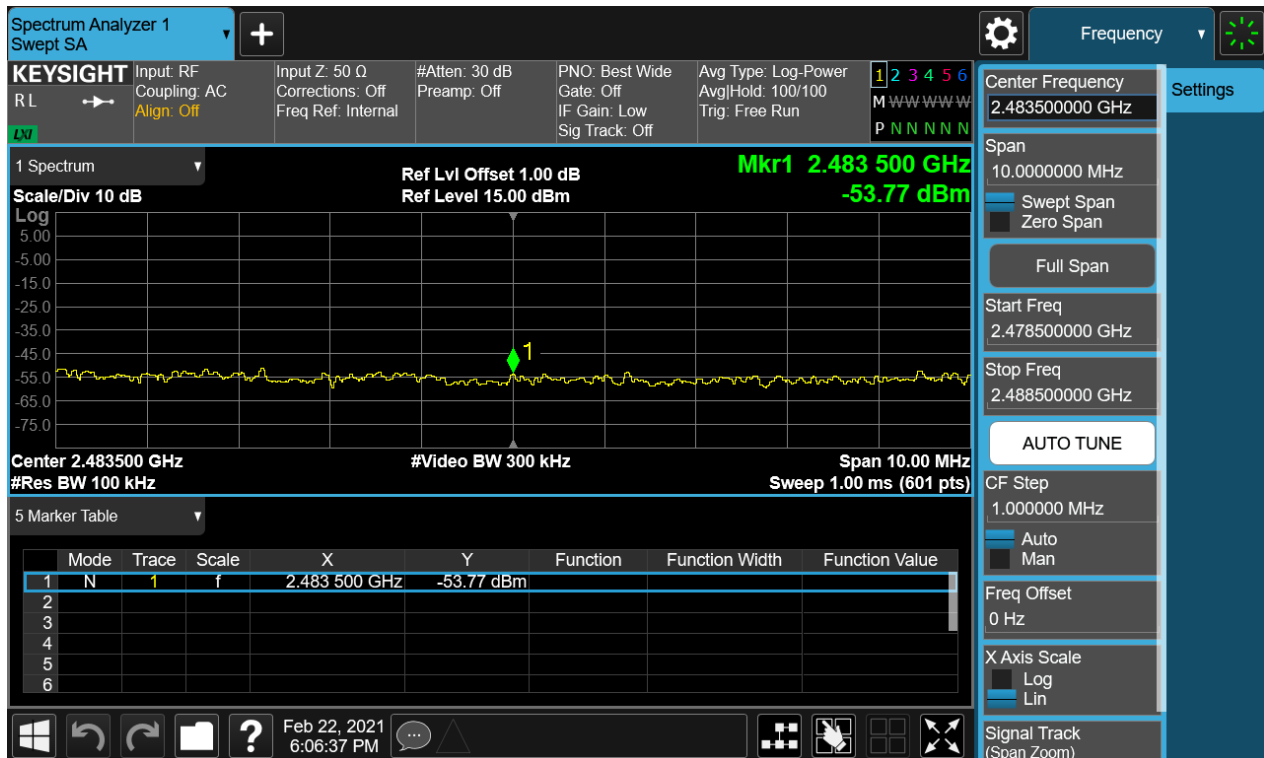
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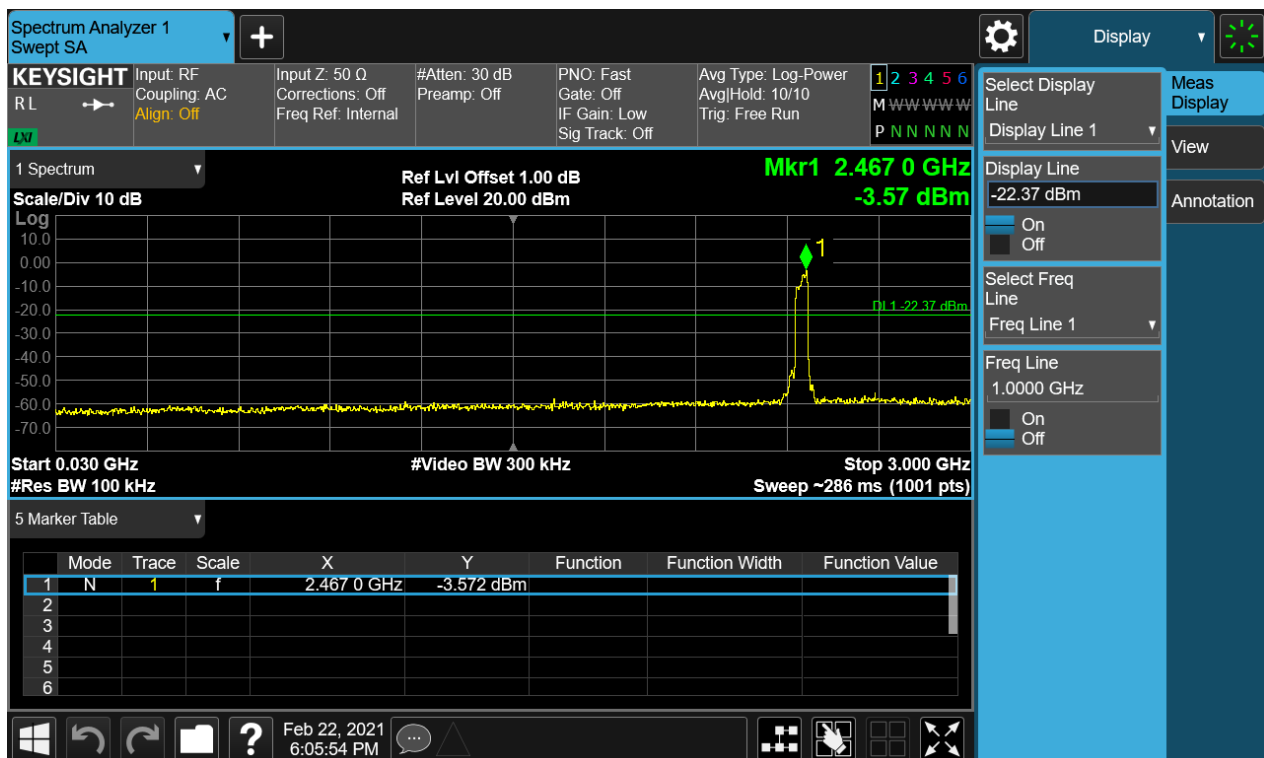
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Band Edge



Conducted spurious emissions 30MHz-25GHz

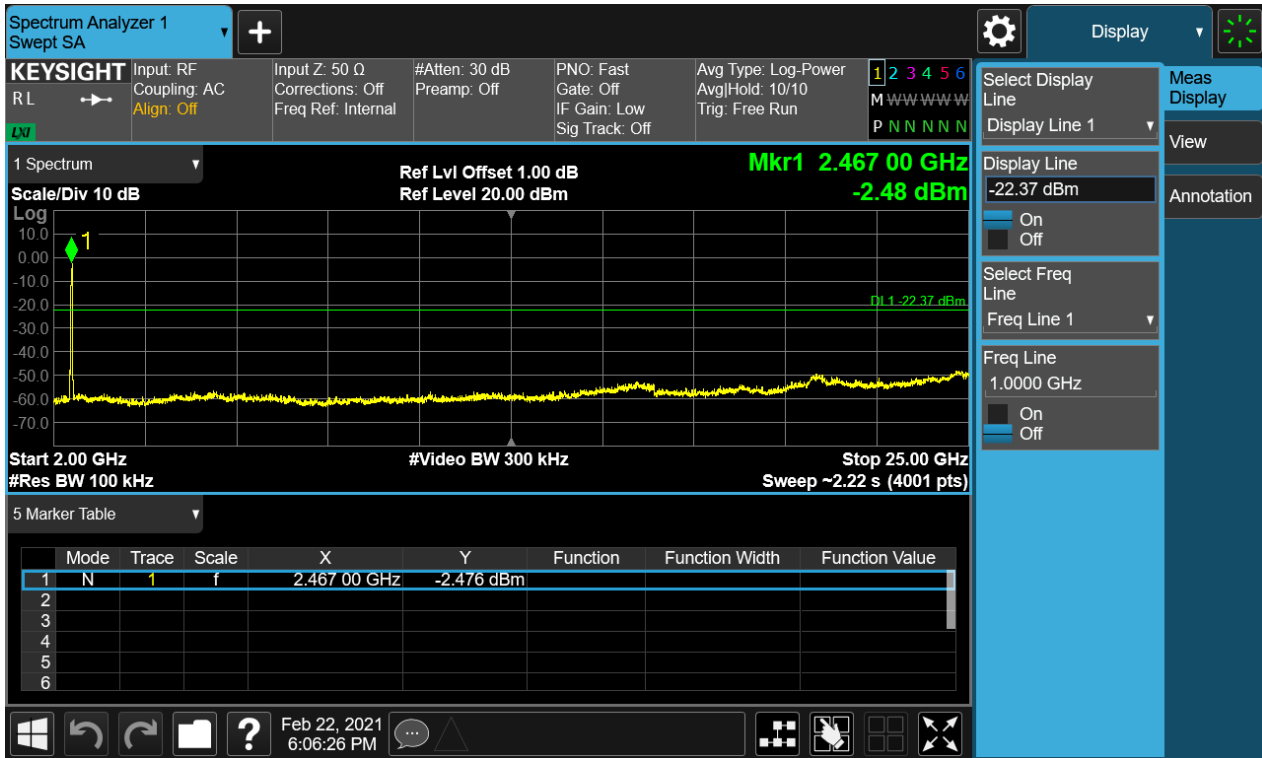


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4.1.6 Spurious Emission

RESULT:

PASS

Test standard : FCC Part 15.247(d), 15.205, 15.209

Requirement : ANSI C63.10-2013, KDB 558074

Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/Middle/High

Operation Mode : A

Ambient temperature : 25°C

Relative humidity : 52%

Notes

Test plots please refer to the annex document "SHE21010036-02GE 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 is working in the Normal link mode below 1 GHz.

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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, KDB 558074

Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1

Ambient temperature : 25°C

Relative humidity : 52%

Notes:

Test plots please refer to the annex document "SHE21010036-02GE 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

Kind of test site : Shielded room

Test setup

Input Voltage : AC 120V, 60Hz; AC 240V, 50Hz

Operation Mode : A

Earthing : Not Connected

Ambient temperature : 25°C

Relative humidity : 52%

For details refer to following test plot.

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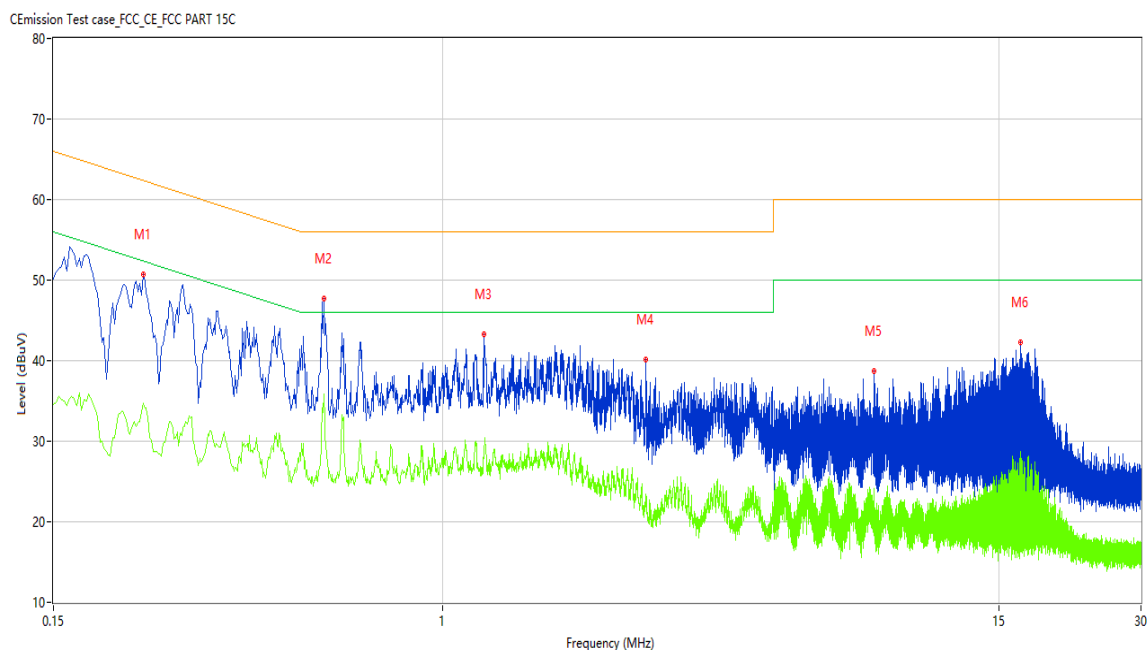
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Note: The all configurations were tested respectively, but only the worst configuration shown here.

Figure 37: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.232	47.59	9.68	62.38	-14.79	Peak	L	Pass
1*	0.232	43.24	9.68	62.38	-19.14	QP	L	Pass
1**	0.232	34.65	9.68	52.38	-17.73	AV	L	Pass
2	0.560	46.58	9.75	56.00	-9.42	Peak	L	Pass
2*	0.560	42.80	9.75	56.00	-13.20	QP	L	Pass
2**	0.560	35.88	9.75	46.00	-10.12	AV	L	Pass
3	1.224	42.16	9.66	56.00	-13.84	Peak	L	Pass
3*	1.224	37.68	9.66	56.00	-18.32	QP	L	Pass
3**	1.224	29.21	9.66	46.00	-16.79	AV	L	Pass
4	2.692	38.89	9.68	56.00	-17.11	Peak	L	Pass
4*	2.692	29.04	9.68	56.00	-26.96	QP	L	Pass
4**	2.692	23.25	9.68	46.00	-22.75	AV	L	Pass
5	8.164	38.76	9.67	60.00	-21.24	Peak	L	Pass
5*	8.164	29.74	9.67	60.00	-30.26	QP	L	Pass
5**	8.164	24.14	9.67	50.00	-25.86	AV	L	Pass
6	16.692	40.97	9.50	60.00	-19.03	Peak	L	Pass
6*	16.692	32.74	9.50	60.00	-27.26	QP	L	Pass
6**	16.692	28.24	9.50	50.00	-21.76	AV	L	Pass

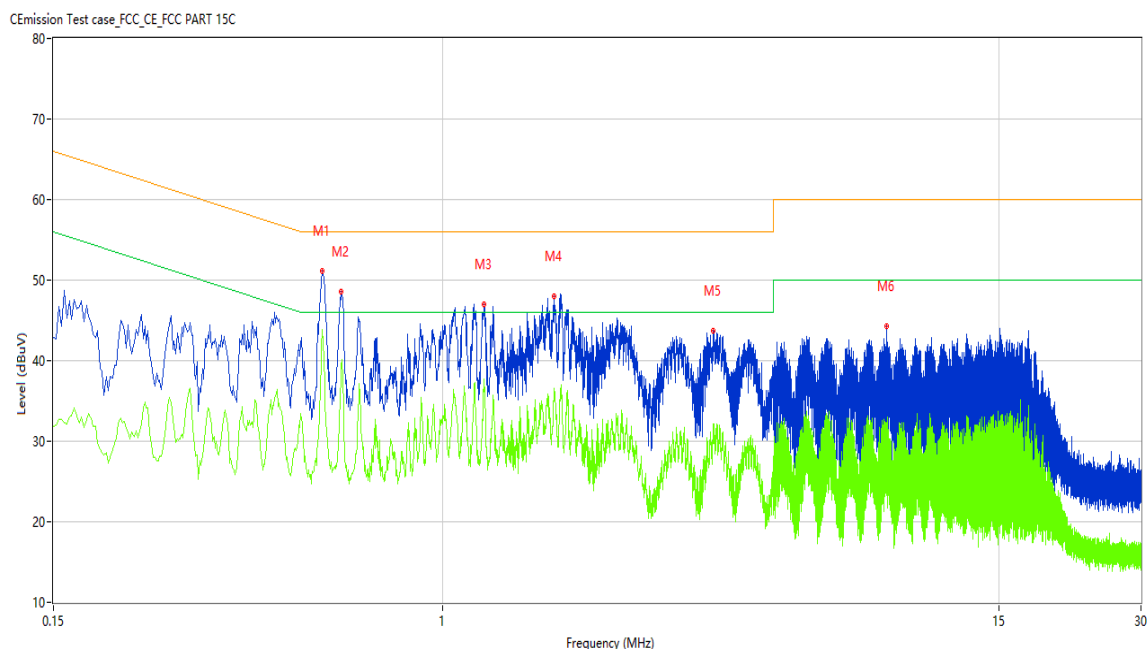
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Figure 38: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.556	51.66	9.75	56.00	-4.34	Peak	N	Pass
1*	0.556	49.52	9.75	56.00	-6.48	QP	N	Pass
1**	0.556	43.81	9.75	46.00	-2.19	AV	N	Pass
2	0.608	48.85	9.76	56.00	-7.15	Peak	N	Pass
2*	0.608	46.11	9.76	56.00	-9.89	QP	N	Pass
2**	0.608	38.06	9.76	46.00	-7.94	AV	N	Pass
3	1.224	46.90	9.66	56.00	-9.10	Peak	N	Pass
3*	1.224	43.92	9.66	56.00	-12.08	QP	N	Pass
3**	1.224	37.74	9.66	46.00	-8.26	AV	N	Pass
4	1.716	48.17	9.67	56.00	-7.83	Peak	N	Pass
4*	1.716	42.60	9.67	56.00	-13.40	QP	N	Pass
4**	1.716	35.54	9.67	46.00	-10.46	AV	N	Pass
5	3.728	44.96	9.68	56.00	-11.04	Peak	N	Pass
5*	3.728	38.98	9.68	56.00	-17.02	QP	N	Pass
5**	3.728	30.95	9.68	46.00	-15.05	AV	N	Pass
6	8.686	43.78	9.67	60.00	-16.22	Peak	N	Pass
6*	8.686	37.45	9.67	60.00	-22.55	QP	N	Pass
6**	8.686	32.22	9.67	50.00	-17.78	AV	N	Pass

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5 Appendixes

5.1 Photographs of the Sample



Front of the sample



Rear of the sample

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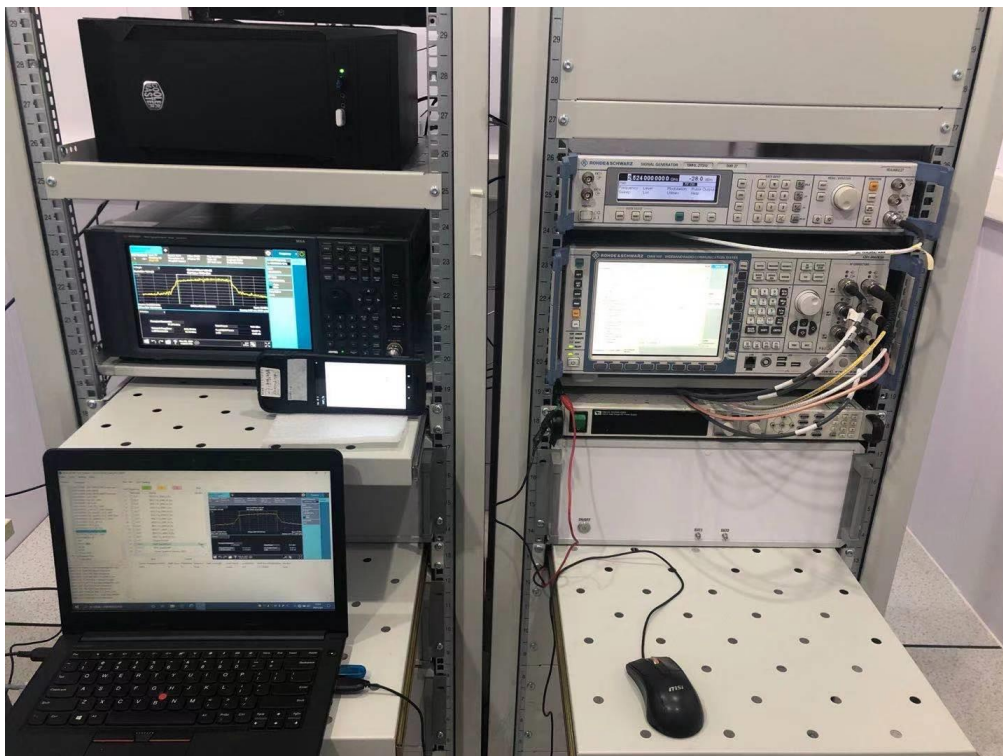
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5.2 Set-up for Conducted Emissions



5.3 Set-up for Conducted RF test at Antenna Port



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5.4 Set-up for Spurious Emissions below 1GHz



5.5 Set-up for Spurious Emissions above 1GHz



End of the report