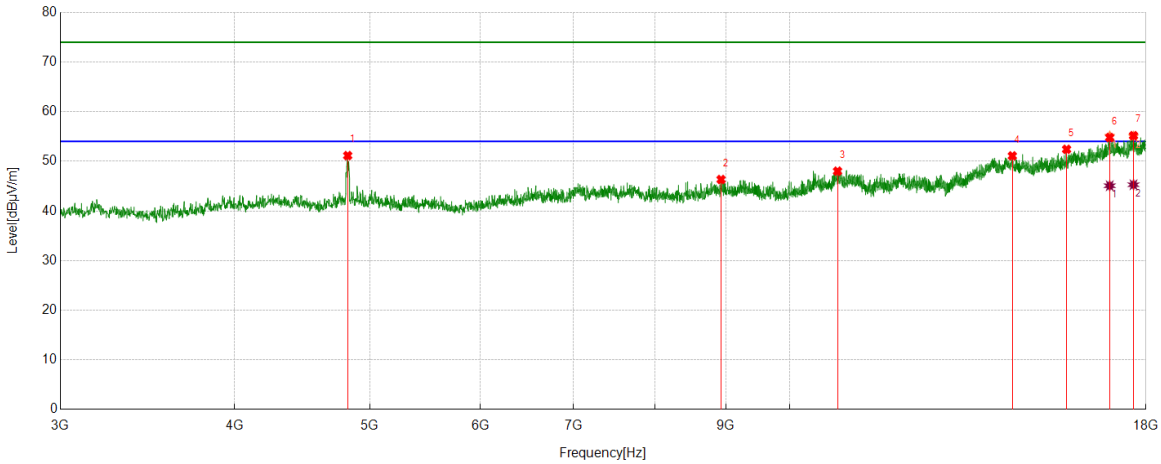
Test Mode	Channel	Polarization	Verdict
11N HT20 MIMO	LCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4820.8526	45.82	5.33	51.15	74.00	-22.85	Vertical
2	8927.616	37.03	9.30	46.33	74.00	-27.67	Vertical
3	10819.7275	35.80	12.21	48.01	74.00	-25.99	Vertical
4	14438.9299	35.05	16.04	51.09	74.00	-22.91	Vertical
5	15790.9739	35.69	16.72	52.41	74.00	-21.59	Vertical
6	16955.4944	35.15	19.64	54.79	74.00	-19.21	Vertical
7	17634.3293	35.74	19.42	55.16	74.00	-18.84	Vertical

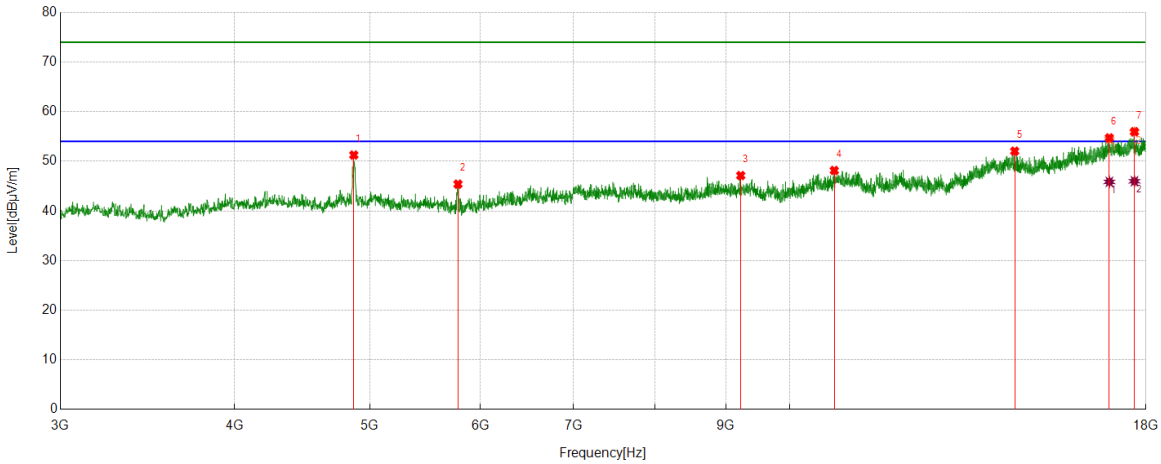
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16955.4944	25.44	19.64	45.08	54.00	-8.92	Vertical
2	17634.3293	25.86	19.42	45.28	54.00	-8.72	Vertical

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Test Mode	Channel	Polarization	Verdict
11N HT20 MIMO	MCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4869.6087	45.72	5.54	51.26	74.00	-22.74	Horizontal
2	5782.8479	41.17	4.23	45.40	74.00	-28.60	Horizontal
3	9222.0278	37.80	9.33	47.13	74.00	-26.87	Horizontal
4	10761.5952	36.18	11.97	48.15	74.00	-25.85	Horizontal
5	14495.1869	36.00	16.04	52.04	74.00	-21.96	Horizontal
6	16946.1183	35.26	19.45	54.71	74.00	-19.29	Horizontal
7	17662.4578	36.40	19.56	55.96	74.00	-18.04	Horizontal

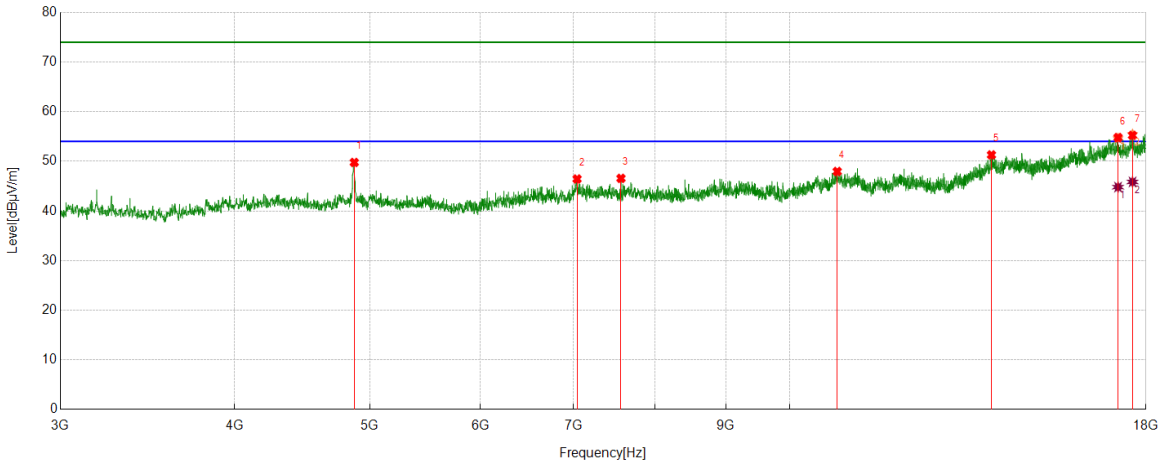
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16946.1183	26.41	19.45	45.86	54.00	-8.14	Horizontal
2	17662.4578	26.42	19.56	45.98	54.00	-8.02	Horizontal

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Test Mode	Channel	Polarization	Verdict
11N HT20 MIMO	MCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4873.3592	44.23	5.54	49.77	74.00	-24.23	Vertical
2	7039.2549	37.28	9.16	46.44	74.00	-27.56	Vertical
3	7568.071	38.15	8.41	46.56	74.00	-27.44	Vertical
4	10814.1018	35.80	12.15	47.95	74.00	-26.05	Vertical
5	13949.4937	35.75	15.54	51.29	74.00	-22.71	Vertical
6	17189.8987	35.58	19.21	54.79	74.00	-19.21	Vertical
7	17606.2008	35.61	19.61	55.22	74.00	-18.78	Vertical

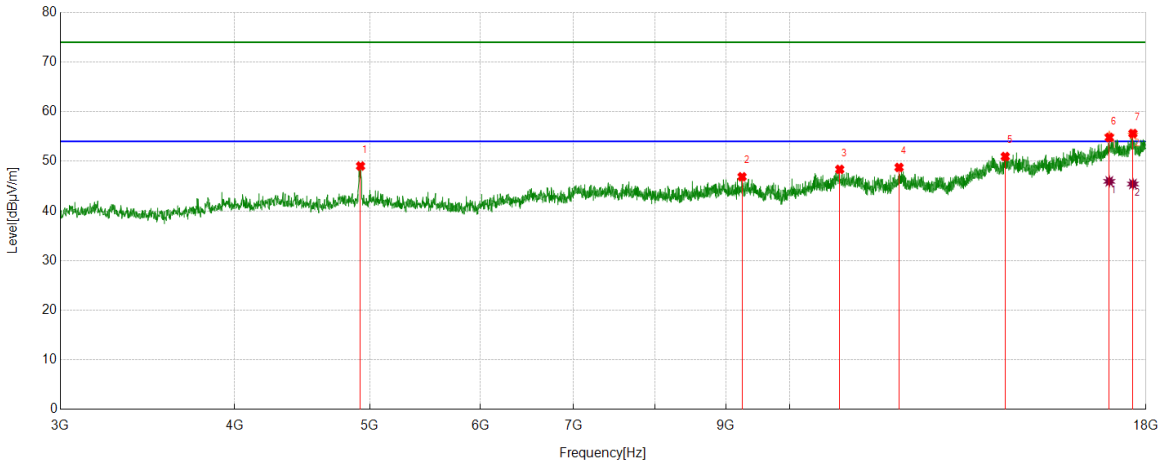
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17189.8987	25.59	19.21	44.80	54.00	-9.20	Vertical
2	17606.2008	26.24	19.61	45.85	54.00	-8.15	Vertical

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Test Mode	Channel	Polarization	Verdict
11N HT20 MIMO	HCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4923.9905	43.48	5.56	49.04	74.00	-24.96	Horizontal
2	9242.6553	37.40	9.48	46.88	74.00	-27.12	Horizontal
3	10859.1074	36.21	12.16	48.37	74.00	-25.63	Horizontal
4	11976.7471	36.14	12.62	48.76	74.00	-25.24	Horizontal
5	14270.1588	35.00	15.96	50.96	74.00	-23.04	Horizontal
6	16944.243	35.37	19.43	54.80	74.00	-19.20	Horizontal
7	17617.4522	36.25	19.35	55.60	74.00	-18.40	Horizontal

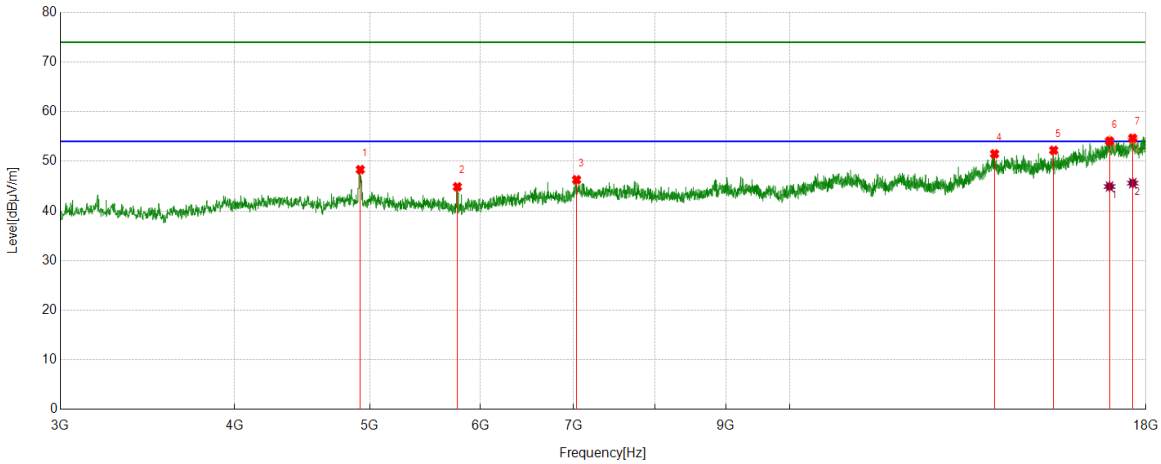
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16944.243	26.53	19.43	45.96	54.00	-8.04	Horizontal
2	17617.4522	26.08	19.35	45.43	54.00	-8.57	Horizontal

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Test Mode	Channel	Polarization	Verdict
11N HT20 MIMO	HCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4922.1153	42.76	5.57	48.33	74.00	-25.67	Vertical
2	5777.2222	40.61	4.26	44.87	74.00	-29.13	Vertical
3	7033.6292	37.11	9.17	46.28	74.00	-27.72	Vertical
4	14020.7526	35.62	15.88	51.50	74.00	-22.50	Vertical
5	15459.0574	36.59	15.63	52.22	74.00	-21.78	Vertical
6	16951.744	34.52	19.54	54.06	74.00	-19.94	Vertical
7	17611.8265	35.08	19.58	54.66	74.00	-19.34	Vertical

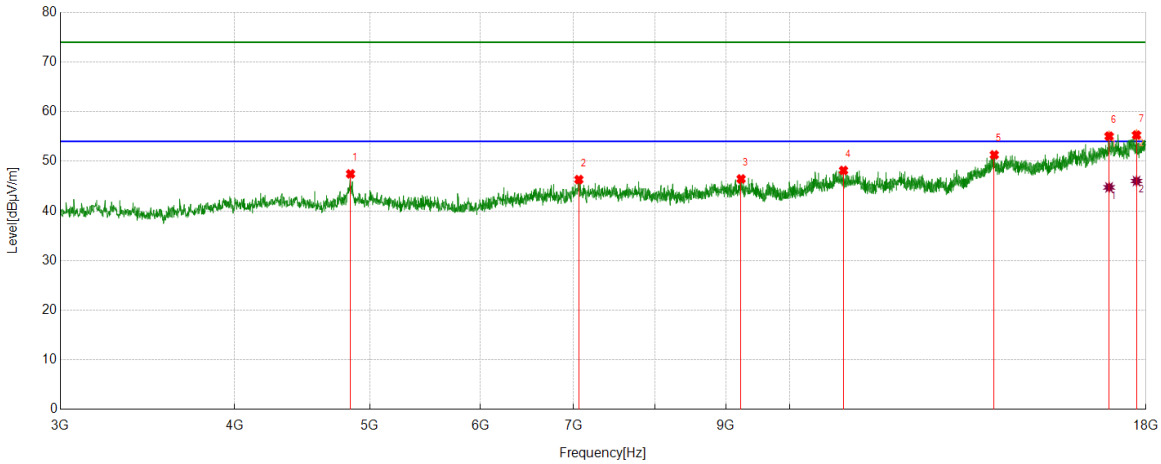
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16951.744	25.38	19.54	44.92	54.00	-9.08	Vertical
2	17611.8265	26.02	19.58	45.60	54.00	-8.40	Vertical

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Test Mode	Channel	Polarization	Verdict
11N HT40 MIMO	LCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4843.3554	42.02	5.44	47.46	74.00	-26.54	Horizontal
2	7059.8825	37.17	9.15	46.32	74.00	-27.68	Horizontal
3	9227.6535	37.05	9.40	46.45	74.00	-27.55	Horizontal
4	10926.6158	35.83	12.33	48.16	74.00	-25.84	Horizontal
5	14013.2517	35.44	15.86	51.30	74.00	-22.70	Horizontal
6	16938.6173	35.74	19.32	55.06	74.00	-18.94	Horizontal
7	17722.4653	35.85	19.43	55.28	74.00	-18.72	Horizontal

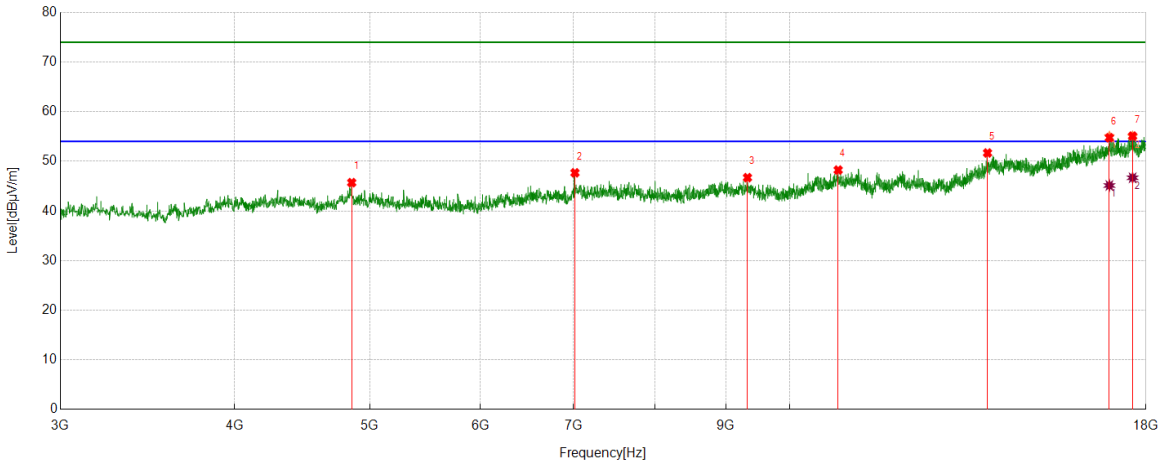
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16938.6173	25.43	19.32	44.75	54.00	-9.25	Horizontal
2	17722.4653	26.60	19.43	46.03	54.00	-7.97	Horizontal

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Test Mode	Channel	Polarization	Verdict
11N HT40 MIMO	LCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4852.7316	40.28	5.42	45.70	74.00	-28.30	Vertical
2	7014.8769	38.40	9.28	47.68	74.00	-26.32	Vertical
3	9325.1656	37.29	9.42	46.71	74.00	-27.29	Vertical
4	10830.9789	36.02	12.22	48.24	74.00	-25.76	Vertical
5	13859.4824	36.31	15.37	51.68	74.00	-22.32	Vertical
6	16946.1183	35.30	19.45	54.75	74.00	-19.25	Vertical
7	17608.076	35.45	19.63	55.08	74.00	-18.92	Vertical

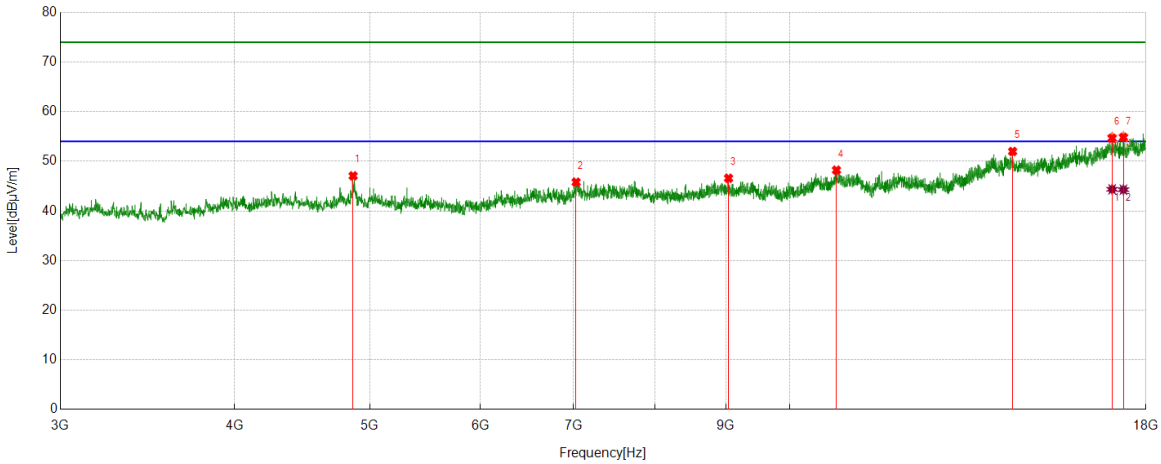
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16946.1183	25.68	19.45	45.13	54.00	-8.87	Vertical
2	17608.076	27.05	19.63	46.68	54.00	-7.32	Vertical

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Test Mode	Channel	Polarization	Verdict
11N HT40 MIMO	MCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4863.983	41.65	5.41	47.06	74.00	-26.94	Horizontal
2	7028.0035	36.60	9.20	45.80	74.00	-28.20	Horizontal
3	9038.2548	37.04	9.55	46.59	74.00	-27.41	Horizontal
4	10800.9751	36.17	12.05	48.22	74.00	-25.78	Horizontal
5	14444.5556	35.93	16.05	51.98	74.00	-22.02	Horizontal
6	17023.0029	35.53	19.12	54.65	74.00	-19.35	Horizontal
7	17343.668	36.30	18.51	54.81	74.00	-19.19	Horizontal

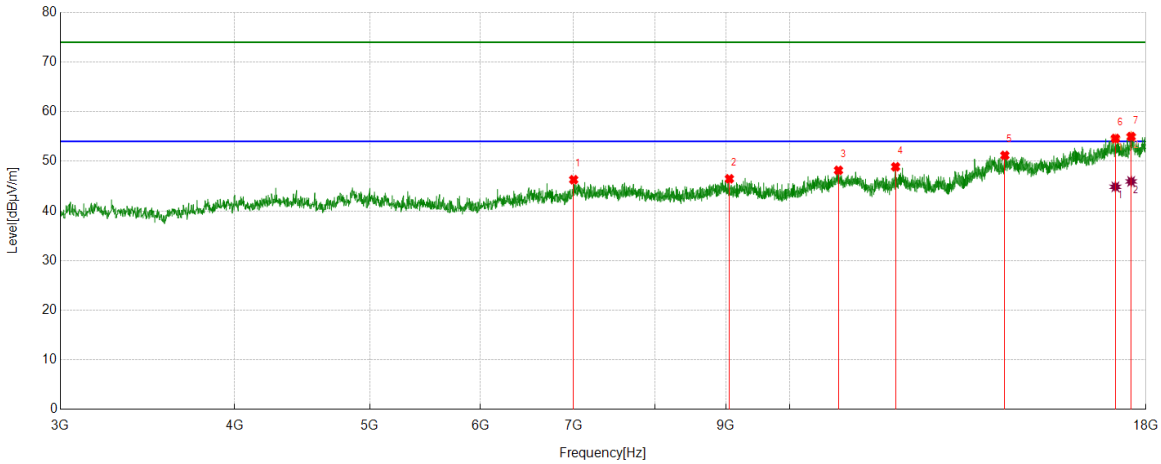
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17023.0029	25.24	19.12	44.36	54.00	-9.64	Horizontal
2	17343.668	25.77	18.51	44.28	54.00	-9.72	Horizontal

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Test Mode	Channel	Polarization	Verdict
11N HT40 MIMO	MCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	6999.875	37.12	9.17	46.29	74.00	-27.71	Vertical
2	9051.3814	37.06	9.41	46.47	74.00	-27.53	Vertical
3	10836.6046	36.04	12.14	48.18	74.00	-25.82	Vertical
4	11907.3634	36.56	12.33	48.89	74.00	-25.11	Vertical
5	14260.7826	35.10	16.09	51.19	74.00	-22.81	Vertical
6	17114.8894	36.01	18.59	54.60	74.00	-19.40	Vertical
7	17566.8209	35.10	19.88	54.98	74.00	-19.02	Vertical

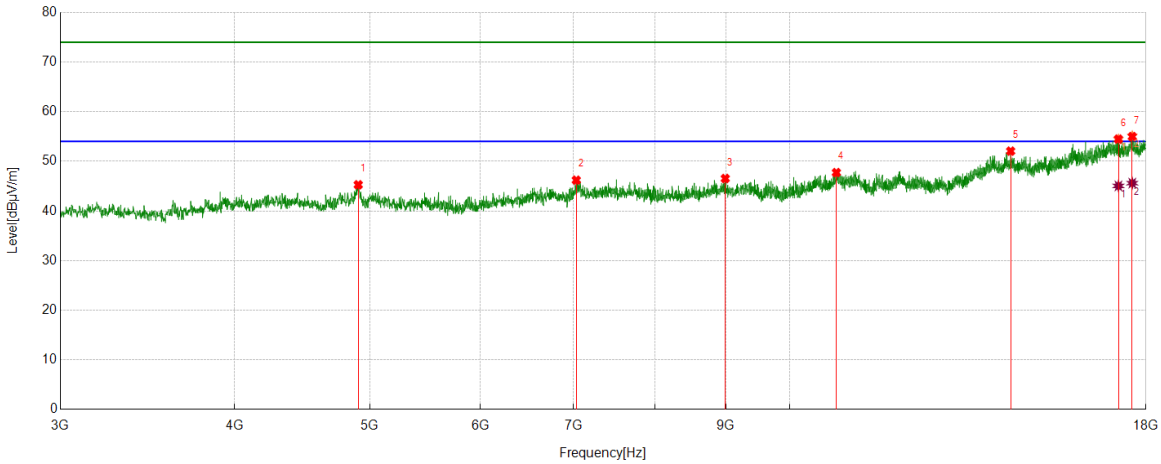
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17114.8894	26.27	18.59	44.86	54.00	-9.14	Vertical
2	17566.8209	26.07	19.88	45.95	54.00	-8.05	Vertical

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Test Mode	Channel	Polarization	Verdict
11N HT40 MIMO	HCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4905.2382	39.91	5.36	45.27	74.00	-28.73	Horizontal
2	7029.8787	37.02	9.18	46.20	74.00	-27.80	Horizontal
3	8989.4987	37.17	9.36	46.53	74.00	-27.47	Horizontal
4	10799.0999	35.69	12.04	47.73	74.00	-26.27	Horizontal
5	14397.6747	36.34	15.71	52.05	74.00	-21.95	Horizontal
6	17201.1501	35.43	19.04	54.47	74.00	-19.53	Horizontal
7	17598.6998	35.40	19.57	54.97	74.00	-19.03	Horizontal

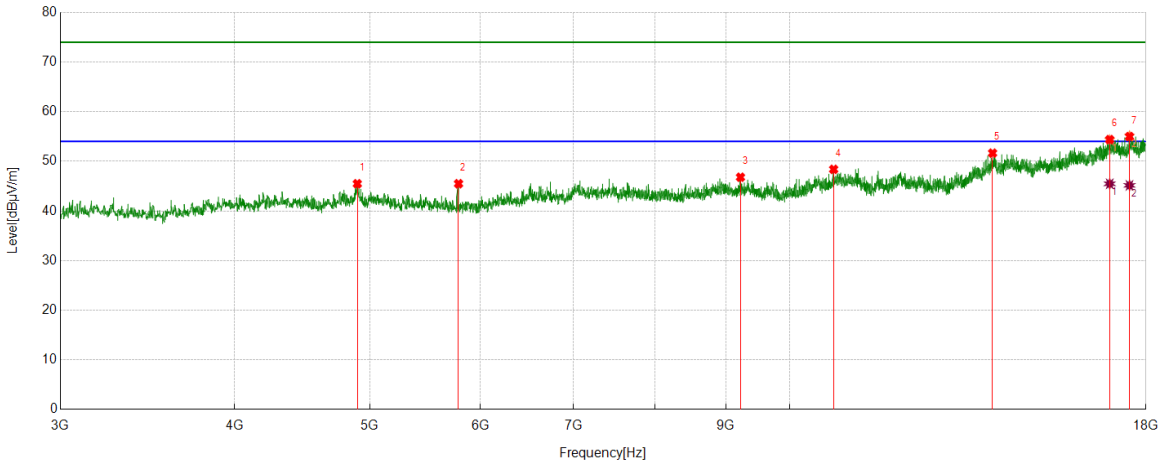
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17201.1501	26.00	19.04	45.04	54.00	-8.96	Horizontal
2	17598.6998	26.03	19.57	45.60	54.00	-8.40	Horizontal

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Test Mode	Channel	Polarization	Verdict
11N HT40 MIMO	HCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4897.7372	40.12	5.36	45.48	74.00	-28.52	Vertical
2	5788.4736	41.21	4.28	45.49	74.00	-28.51	Vertical
3	9218.2773	37.47	9.32	46.79	74.00	-27.21	Vertical
4	10750.3438	36.46	11.92	48.38	74.00	-25.62	Vertical
5	13975.747	35.75	15.90	51.65	74.00	-22.35	Vertical
6	16955.4944	34.73	19.64	54.37	74.00	-19.63	Vertical
7	17518.0648	35.85	19.13	54.98	74.00	-19.02	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	16955.4944	25.83	19.64	45.47	54.00	-8.53	Vertical
2	17518.0648	26.02	19.13	45.15	54.00	-8.85	Vertical

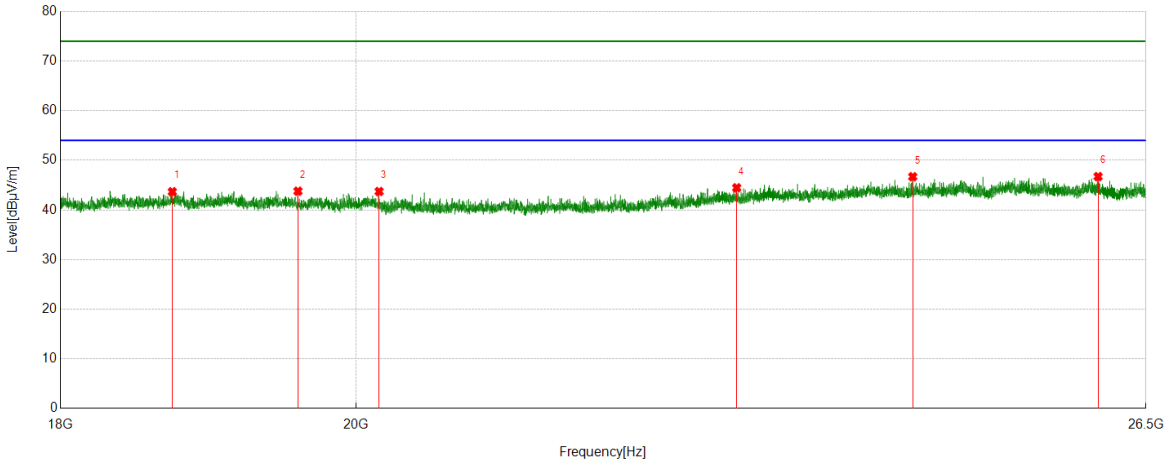
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Part 3: 18GHz~26.5GHz

SPURIOUS EMISSIONS 18GHz TO 26.5GHz (WORST-CASE CONFIGURATION)

Test Mode	Channel	Polarization	Verdict
11B	MCH	Horizontal	PASS

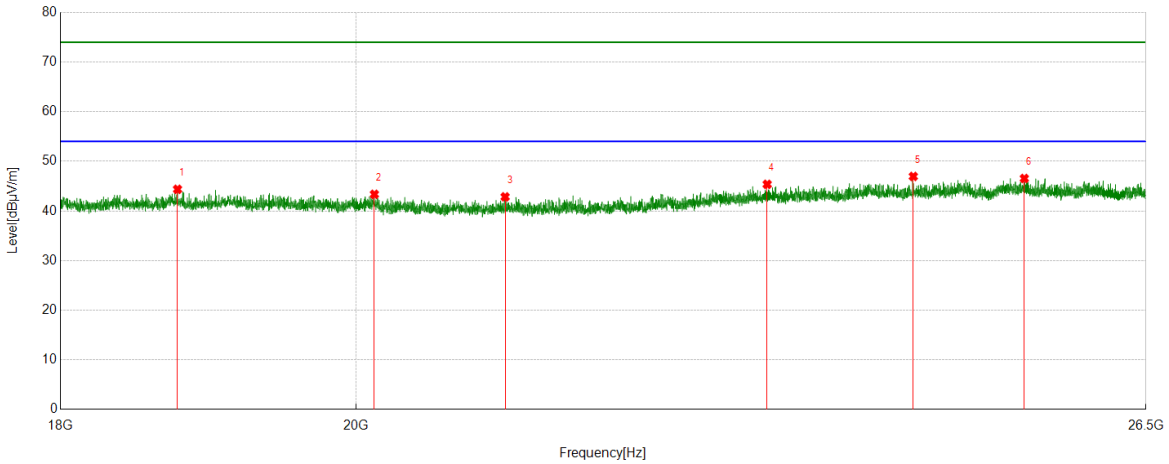


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	18732.7733	49.90	-6.23	43.67	74.00	-30.33	Peak
2	19590.5091	49.21	-5.43	43.78	74.00	-30.22	Peak
3	20165.1665	48.98	-5.26	43.72	74.00	-30.28	Peak
4	22904.9905	48.18	-3.72	44.46	74.00	-29.54	Peak
5	24387.5388	49.61	-2.92	46.69	74.00	-27.31	Peak
6	26052.0052	49.33	-2.61	46.72	74.00	-27.28	Peak

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Test Mode	Channel	Polarization	Verdict
11B	MCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	18767.6268	50.57	-6.21	44.36	74.00	-29.64	Peak
2	20131.1631	48.56	-5.21	43.35	74.00	-30.65	Peak
3	21090.9091	48.83	-5.99	42.84	74.00	-31.16	Peak
4	23154.9155	48.80	-3.44	45.36	74.00	-28.64	Peak
5	24392.6393	49.87	-2.92	46.95	74.00	-27.05	Peak
6	25376.1876	49.81	-3.27	46.54	74.00	-27.46	Peak

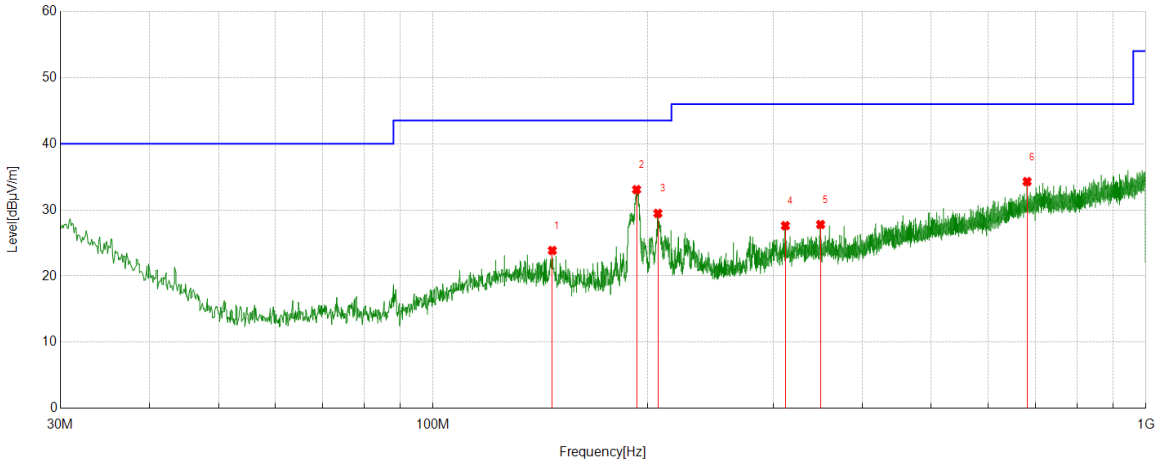
Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Part 4: 30MHz~1GHz

SPURIOUS EMISSIONS 30M TO 1GHz (WORST-CASE CONFIGURATION)

Test Mode	Channel	Polarization	Verdict
11B	MCH	Horizontal	PASS

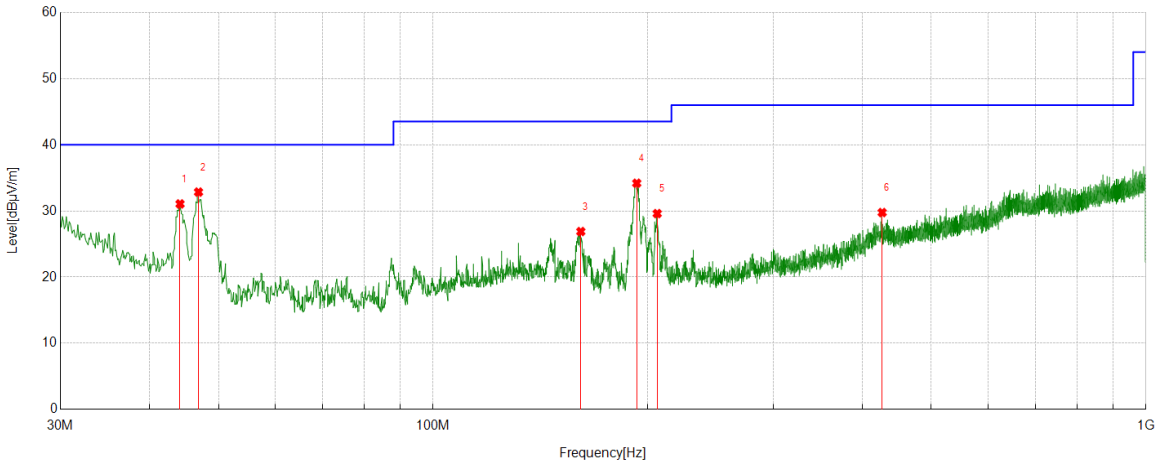


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	146.9937	3.91	19.96	23.87	43.50	-19.63	Peak
2	192.9763	13.96	19.11	33.07	43.50	-10.43	Peak
3	206.7517	9.52	19.96	29.48	43.50	-14.02	Peak
4	312.0072	6.01	21.61	27.62	46.00	-18.38	Peak
5	349.647	5.58	22.22	27.80	46.00	-18.20	Peak
6	681.2261	5.35	28.93	34.28	46.00	-11.72	Peak

Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Test Mode	Channel	Polarization	Verdict
11B	MCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	44.1634	12.78	18.28	31.06	40.00	-8.94	Peak
2	46.8797	16.29	16.56	32.85	40.00	-7.15	Peak
3	161.1571	7.58	19.31	26.89	43.50	-16.61	Peak
4	193.0733	15.07	19.12	34.19	43.50	-9.31	Peak
5	206.2666	9.63	19.97	29.60	43.50	-13.90	Peak
6	426.5757	5.28	24.48	29.76	46.00	-16.24	Peak

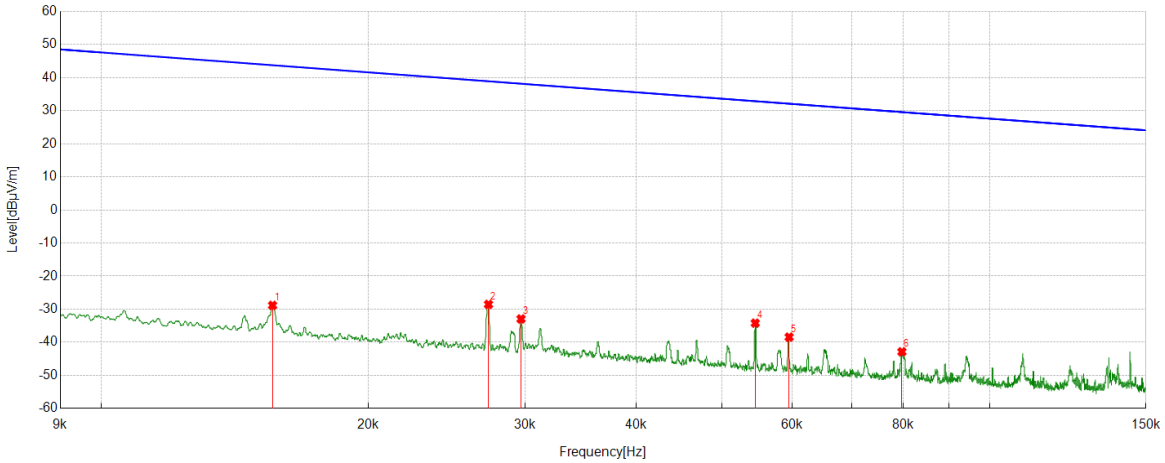
Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Part 5: 9kHz~30MHz

SPURIOUS EMISSIONS Below 30MHz (WORST CASE CONFIGURATION-FACE ON)

Test Mode	Channel	Frequency Range	Verdict
11B	MCH	9kHz~150kHz	PASS

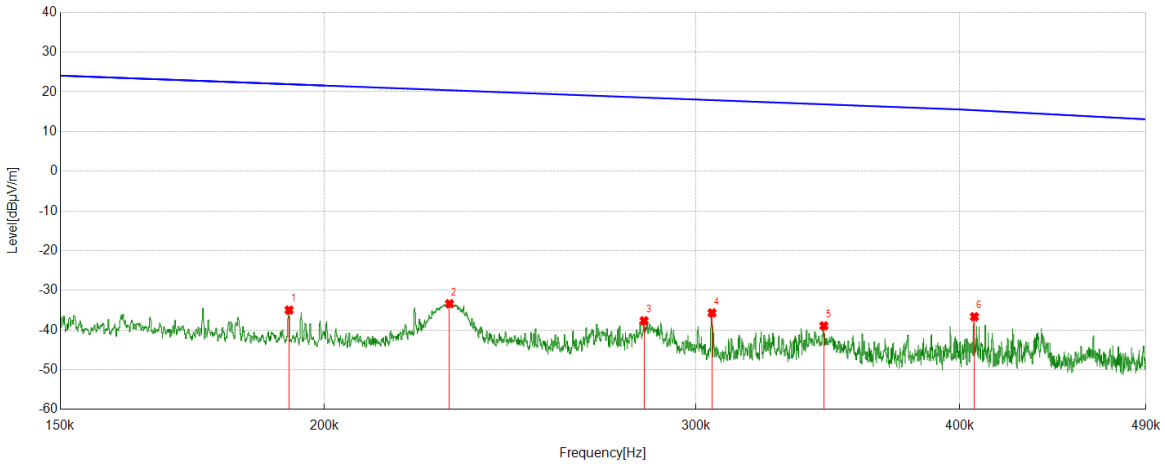


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	0.0156	33.09	-61.93	-28.84	43.73	-72.57	Peak
2	0.0273	33.28	-61.82	-28.54	38.89	-67.43	Peak
3	0.0297	28.85	-61.79	-32.94	38.14	-71.08	Peak
4	0.0545	27.60	-61.81	-34.21	32.87	-67.08	Peak
5	0.0595	23.39	-61.82	-38.43	32.12	-70.55	Peak
6	0.0797	19.02	-61.89	-42.87	29.57	-72.44	Peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Test Mode	Channel	Frequency Range	Verdict
11B	MCH	150kHz~490kHz	PASS

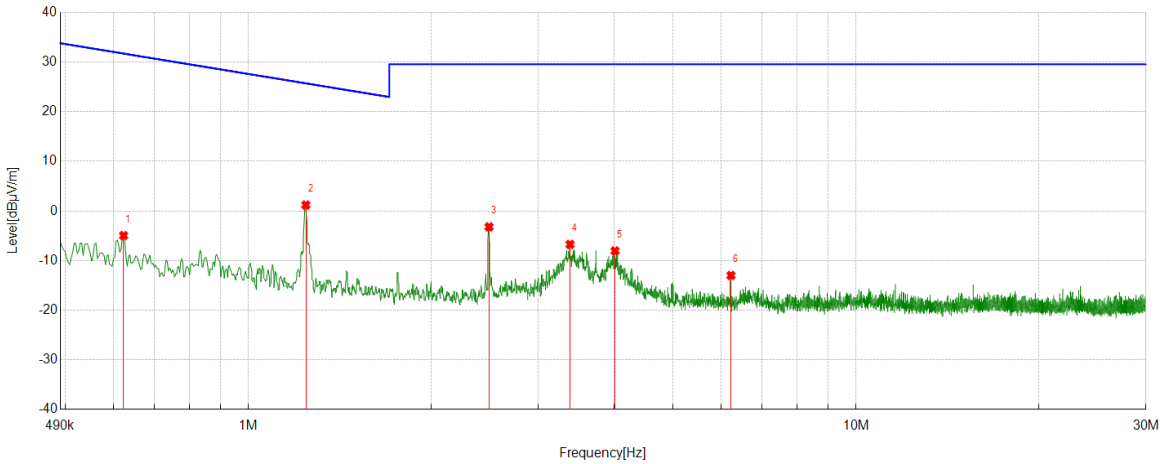


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	0.1925	26.96	-61.92	-34.96	21.92	-56.88	Peak
2	0.2293	28.56	-61.93	-33.37	20.39	-53.76	Peak
3	0.2835	24.31	-61.96	-37.65	18.55	-56.20	Peak
4	0.3053	26.29	-61.97	-35.68	17.91	-53.59	Peak
5	0.3449	23.03	-61.97	-38.94	16.85	-55.79	Peak
6	0.4064	25.33	-61.97	-36.64	15.37	-52.01	Peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

Test Mode	Channel	Frequency Range	Verdict
11B	MCH	490kHz~30MHz	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	0.6228	16.99	-21.95	-4.96	31.72	-36.68	Peak
2	1.2426	23.11	-21.92	1.19	25.72	-24.53	Peak
3	2.488	18.65	-21.86	-3.21	29.54	-32.75	Peak
4	3.3823	15.09	-21.83	-6.74	29.54	-36.28	Peak
5	4.0109	13.76	-21.81	-8.05	29.54	-37.59	Peak
6	6.2244	8.77	-21.77	-13.00	29.54	-42.54	Peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

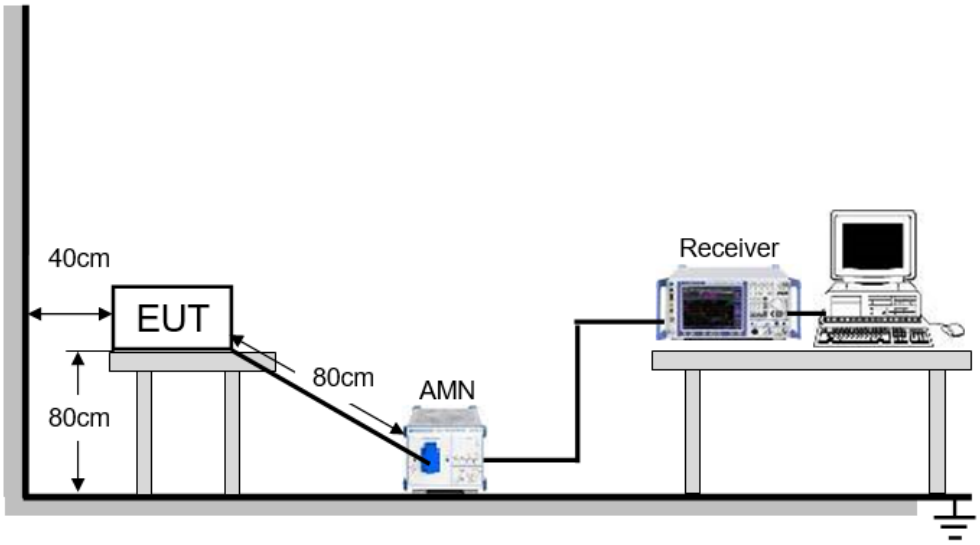
9. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to FCC §15.207 (a)

FREQUENCY (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST SETUP AND PROCEDURE



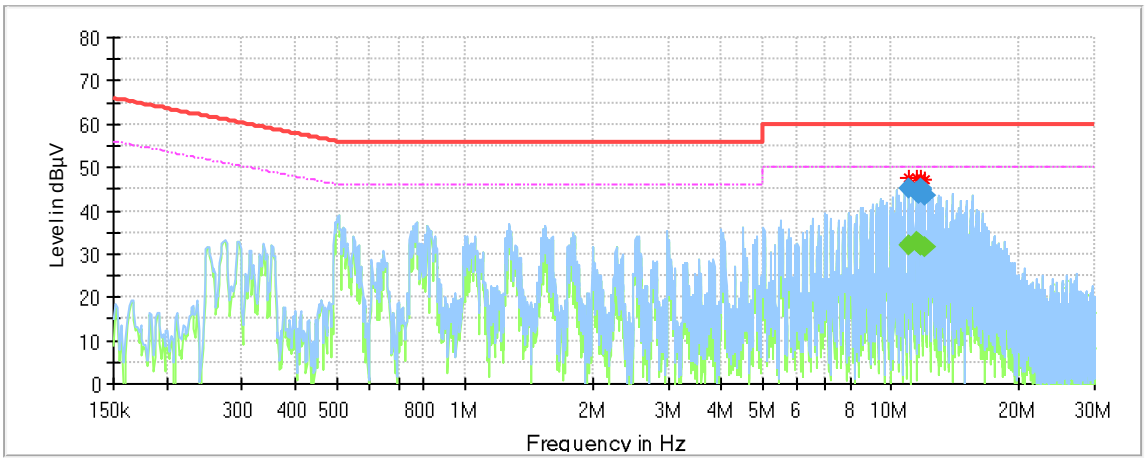
The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

TEST RESULTS (WORST CASE CONFIGURATION)

For L Line:



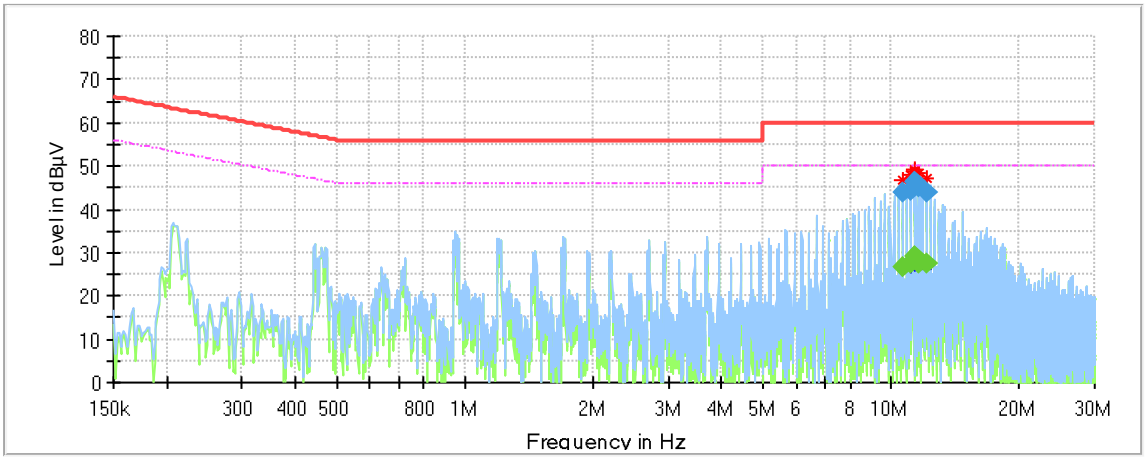
Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
11.046743	---	32.16	50.00	17.84	1000.0	9.000	L1	OFF	9.4
11.046743	45.03	---	60.00	14.97	1000.0	9.000	L1	OFF	9.4
11.525835	---	32.75	50.00	17.25	1000.0	9.000	L1	OFF	9.4
11.525835	44.44	---	60.00	15.56	1000.0	9.000	L1	OFF	9.4
11.549715	---	32.31	50.00	17.69	1000.0	9.000	L1	OFF	9.4
11.549715	44.10	---	60.00	15.90	1000.0	9.000	L1	OFF	9.4
11.775083	44.64	---	60.00	15.36	1000.0	9.000	L1	OFF	9.4
11.775083	---	32.08	50.00	17.92	1000.0	9.000	L1	OFF	9.4
11.794485	45.13	---	60.00	14.87	1000.0	9.000	L1	OFF	9.4
11.794485	---	32.18	50.00	17.83	1000.0	9.000	L1	OFF	9.4
12.039255	---	31.77	50.00	18.23	1000.0	9.000	L1	OFF	9.4
12.039255	43.60	---	60.00	16.40	1000.0	9.000	L1	OFF	9.4

Note: 1. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
3. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.
4. The extension cord/outlet strip was calibrated with the LISN as required by ANSI C63.10:2013 Clause 6.2.2.
5. Pre-testing all test modes and channels, and find the MCH of 11B mode which is the worst case, so only the worst case is included in this test report.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

For N Line:



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
10.643768	---	26.79	50.00	23.21	1000.0	9.000	N	OFF	9.9
10.643768	43.78	---	60.00	16.22	1000.0	9.000	N	OFF	9.9
11.149725	---	27.32	50.00	22.68	1000.0	9.000	N	OFF	9.9
11.149725	44.47	---	60.00	15.53	1000.0	9.000	N	OFF	9.9
11.401958	---	29.20	50.00	20.80	1000.0	9.000	N	OFF	9.9
11.401958	46.42	---	60.00	13.58	1000.0	9.000	N	OFF	9.9
11.416883	46.26	---	60.00	13.74	1000.0	9.000	N	OFF	9.9
11.416883	---	29.09	50.00	20.91	1000.0	9.000	N	OFF	9.9
11.655683	45.30	---	60.00	14.70	1000.0	9.000	N	OFF	9.8
11.655683	---	27.67	50.00	22.33	1000.0	9.000	N	OFF	9.8
12.142238	---	27.35	50.00	22.65	1000.0	9.000	N	OFF	9.8
12.142238	43.76	---	60.00	16.24	1000.0	9.000	N	OFF	9.8

Note: 1. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
3. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.
4. The extension cord/outlet strip was calibrated with the LISN as required by ANSI C63.10:2013 Clause 6.2.2.
5. Pre-testing all test modes and channels, and find theMCH of 11B mode which is the worst case, so only the worst case is included in this test report.

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.

10. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

ANTENNA GAIN

The antenna gain of EUT are less than 6 dBi.

END OF REPORT

This report shall not be reproduced except in full, without the written approval of UL-CCIC COMPANY LIMITED.