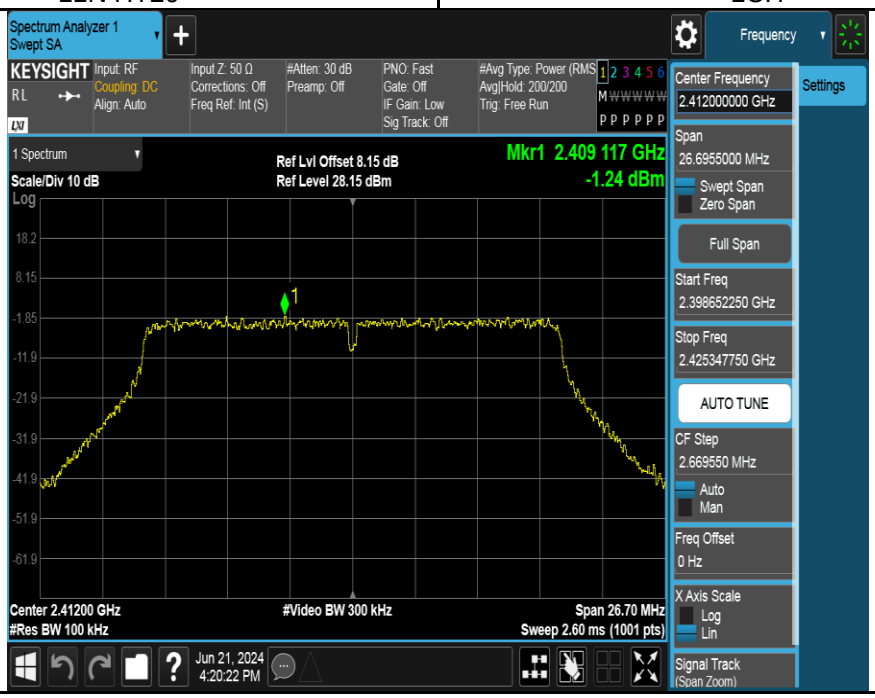
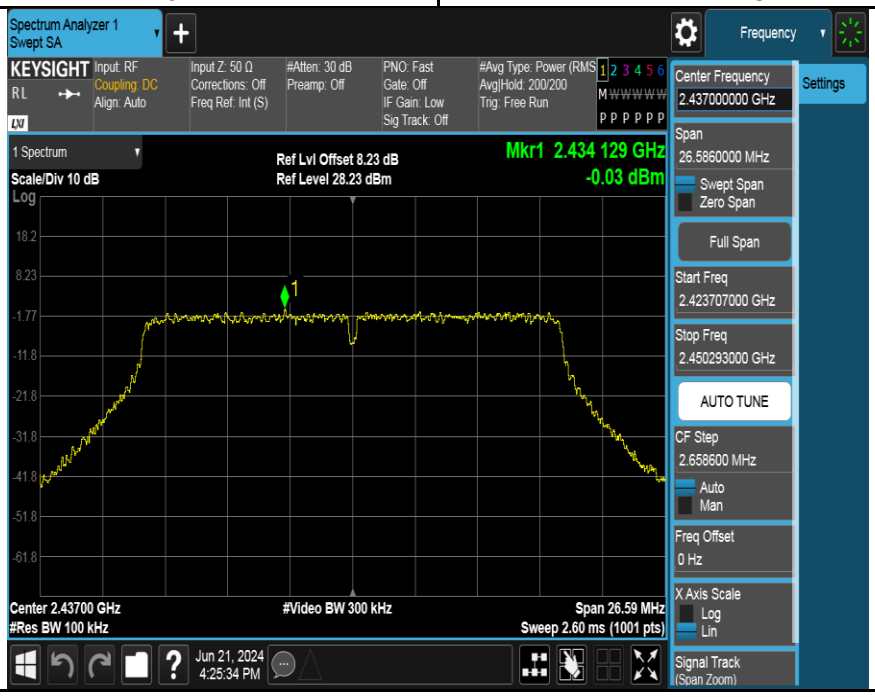
Test Mode	Channel
11N HT20	LCH



Test Mode	Channel
11N HT20	MCH



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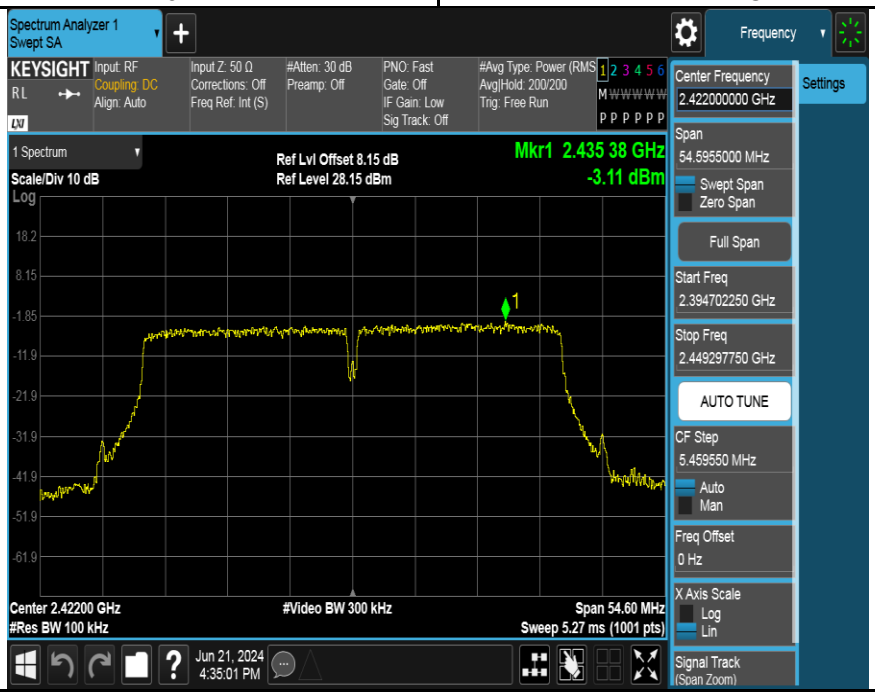
Test Mode	Channel
11N HT20	HCH

Test Mode	Channel
11N HT40	LCH



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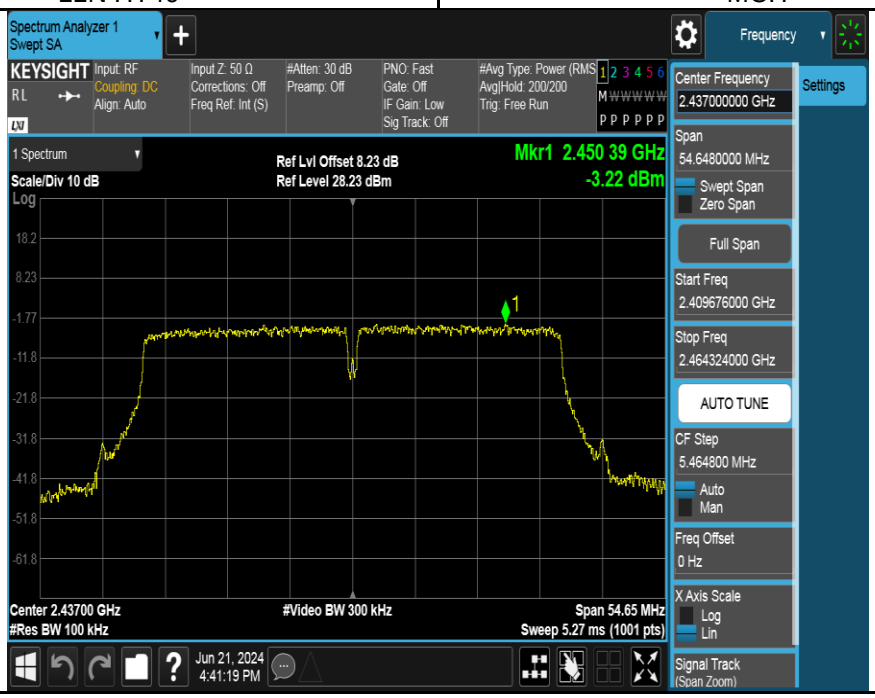
Test Mode	Channel
11N HT40	MCH



Test Mode	Channel
11N HT40	HCH

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PART 2: CONDUCTED BANDEDGE

TEST RESULTS TABLE

Test Mode	Test Channel	Result	Verdict
11B	LCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
11G	LCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
11N HT20	LCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
11N HT40	LCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS

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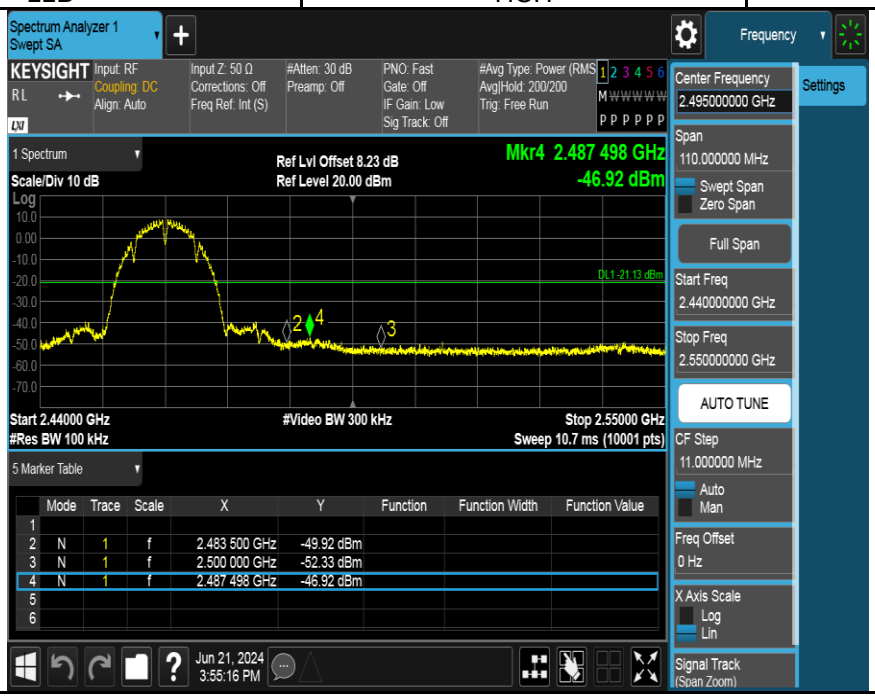
TEST GRAPHS

Test Mode	Test Channel	Verdict
11B	LCH	PASS

Test Mode	Test Channel	Verdict
11B	HCH	PASS



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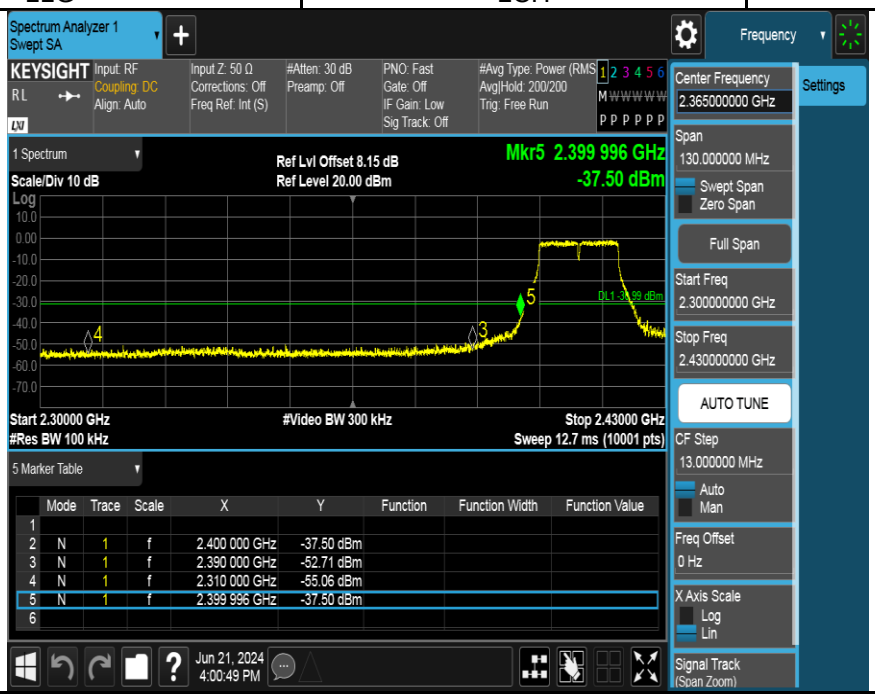
Test Mode	Test Channel	Verdict
11G	LCH	PASS



Test Mode	Test Channel	Verdict
11G	HCH	PASS

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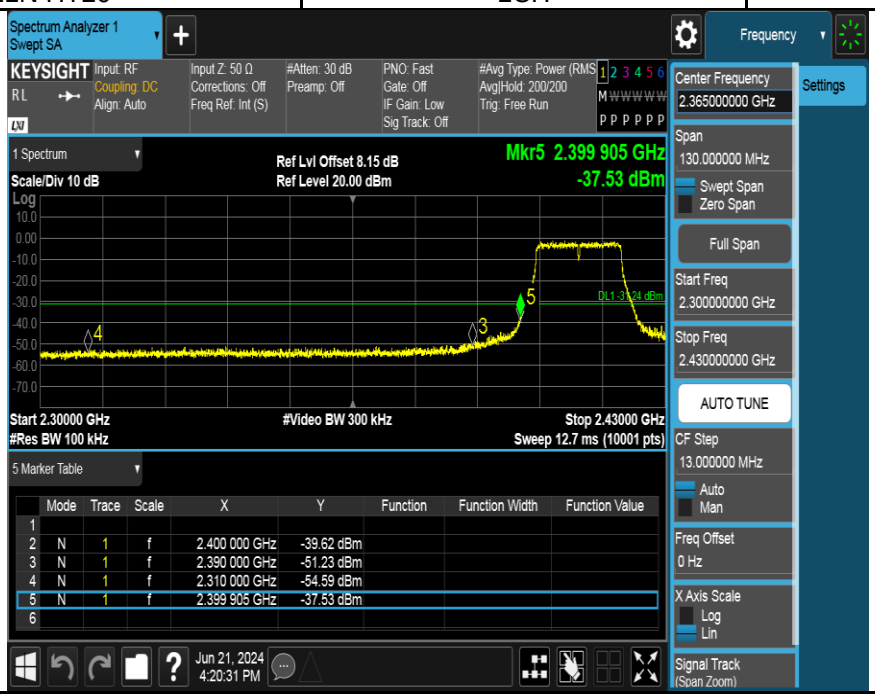
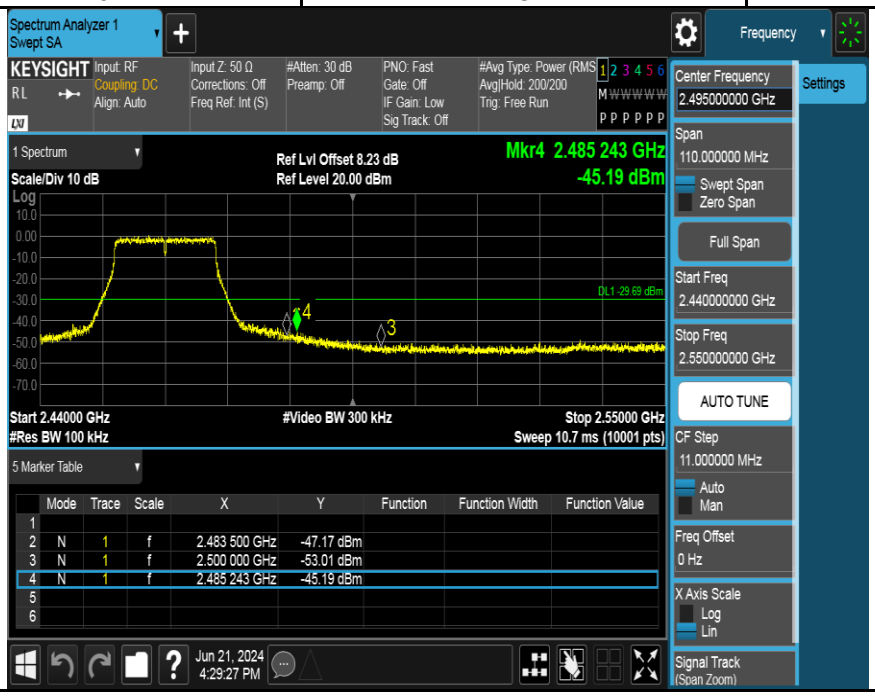
Test Mode	Test Channel	Verdict
11N HT20	LCH	PASS



Test Mode	Test Channel	Verdict
11N HT20	HCH	PASS



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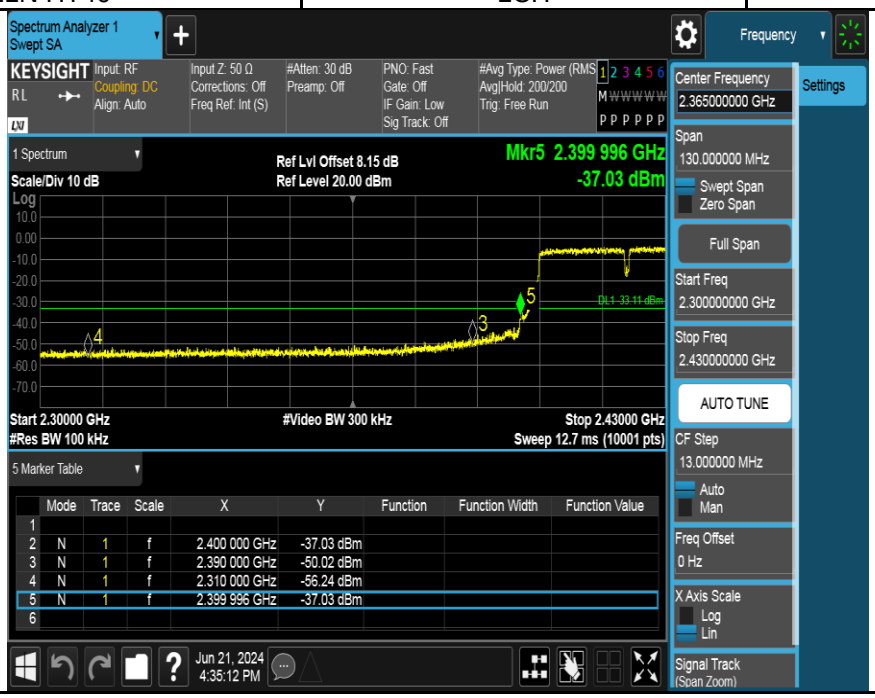
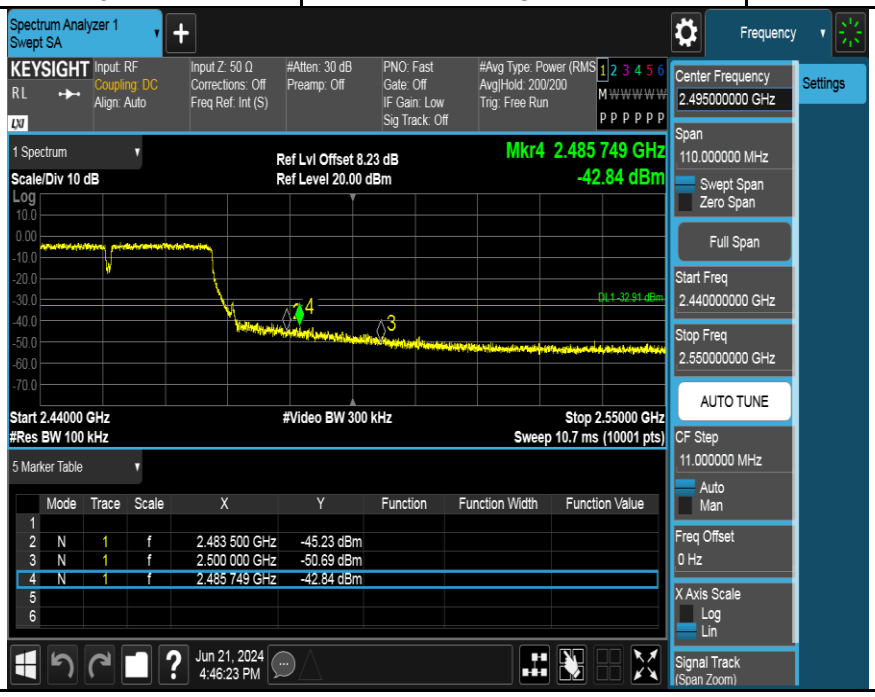
Test Mode	Test Channel	Verdict
11N HT40	LCH	PASS



Test Mode	Test Channel	Verdict
11N HT40	HCH	PASS



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PART 3: CONDUCTED SPURIOUS EMISSION

TEST RESULTS TABLE

Test Mode	Test Channel	Result	Verdict
11B	LCH	Refer to the Test Graph	PASS
	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
11G	LCH	Refer to the Test Graph	PASS
	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
11N HT20	LCH	Refer to the Test Graph	PASS
	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
11N HT40	LCH	Refer to the Test Graph	PASS
	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS

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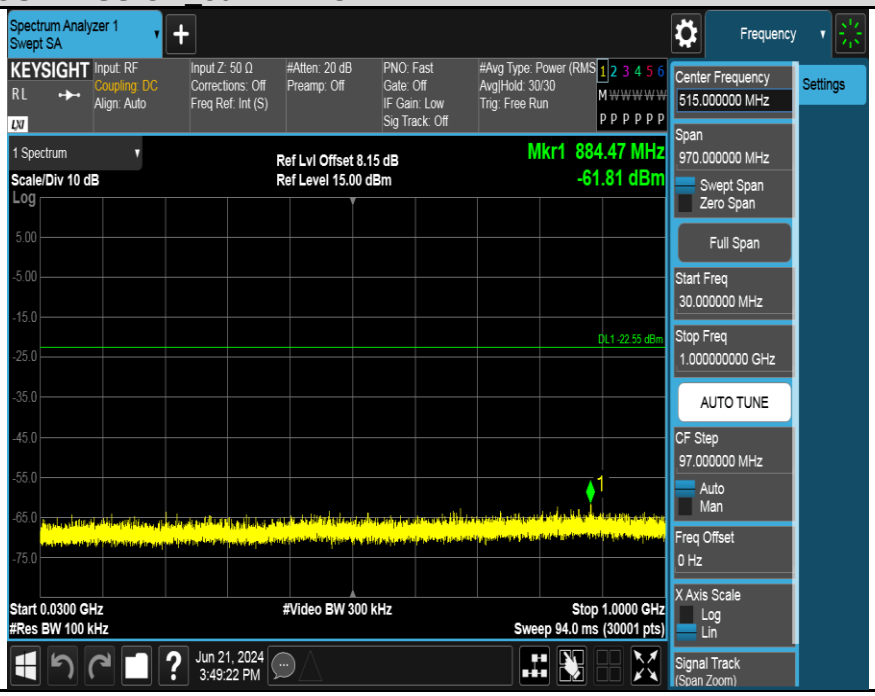
TEST GRAPHS

Test Mode	Channel	Verdict
11B	LCH	PASS

LCH SPURIOUS EMISSION_30MHz~1GHz



LCH SPURIOUS EMISSION_1GHz~26.5GHz

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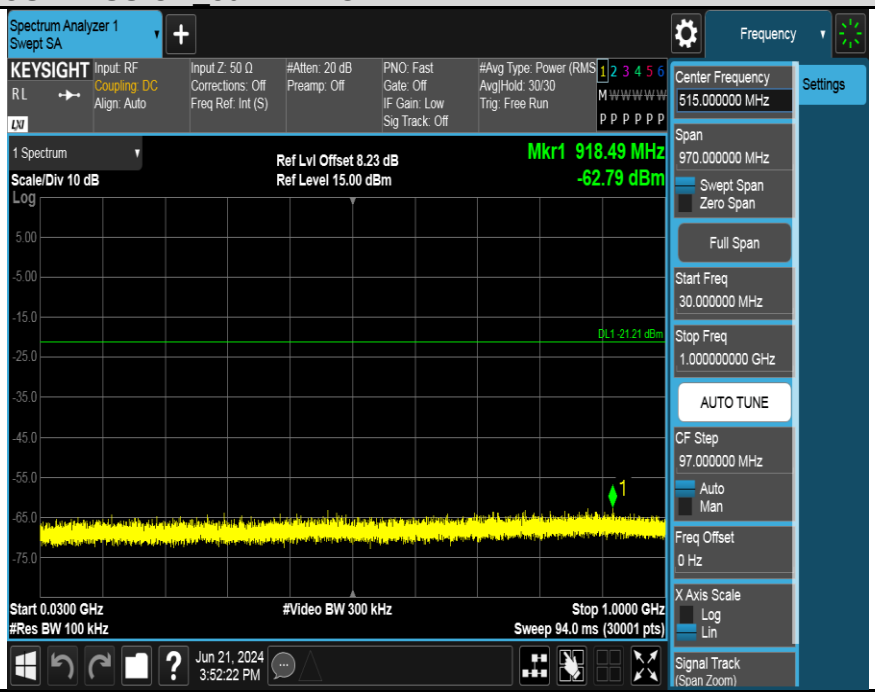
Test Mode	Channel	Verdict
11B	MCH	PASS

MCH SPURIOUS EMISSION_30MHz~1GHz



MCH SPURIOUS EMISSION_1GHz~26.5GHz

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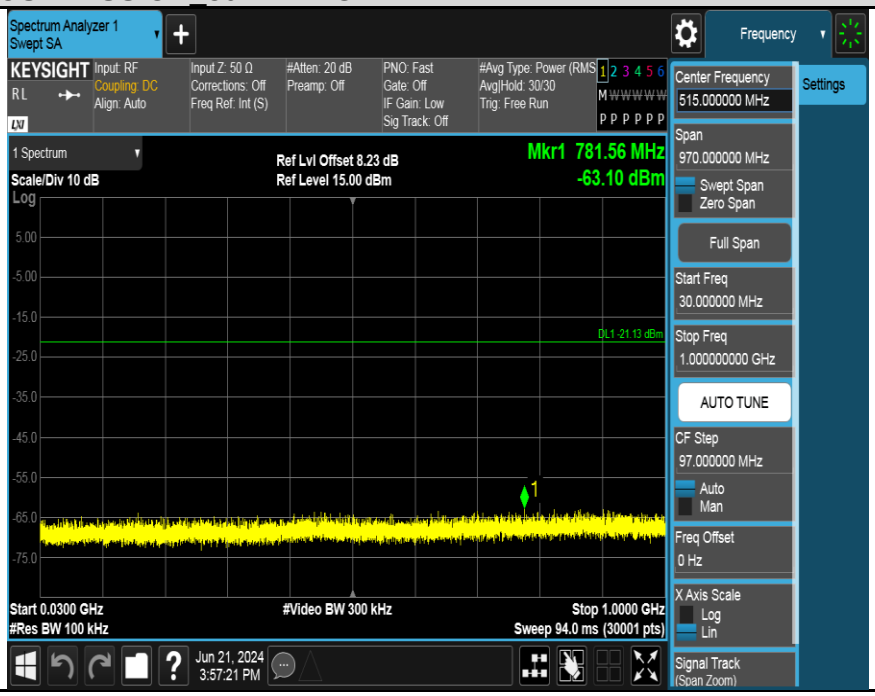
Test Mode	Channel	Verdict
11B	HCH	PASS

HCH SPURIOUS EMISSION_30MHz~1GHz



HCH SPURIOUS EMISSION_1GHz~26.5GHz

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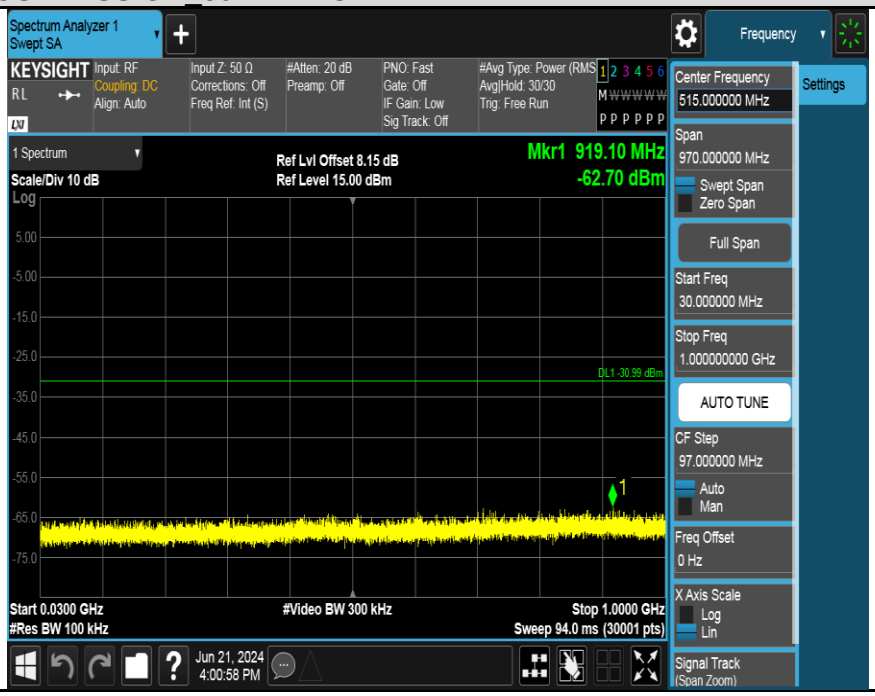
Test Mode	Channel	Verdict
11G	LCH	PASS

LCH SPURIOUS EMISSION_30MHz~1GHz



LCH SPURIOUS EMISSION_1GHz~26.5GHz

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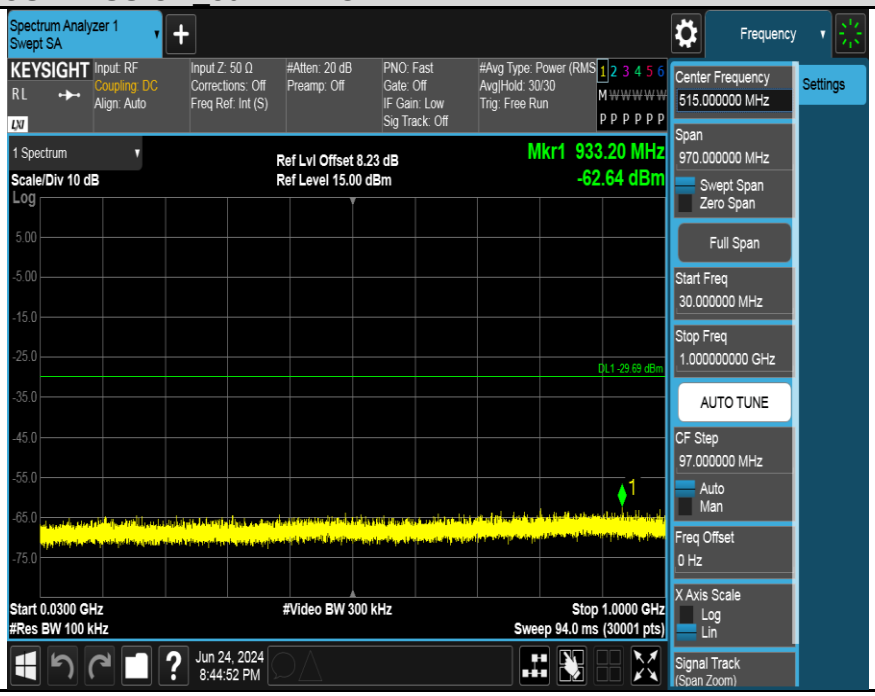
Test Mode	Channel	Verdict
11G	MCH	PASS

MCH SPURIOUS EMISSION_30MHz~1GHz



MCH SPURIOUS EMISSION_1GHz~26.5GHz

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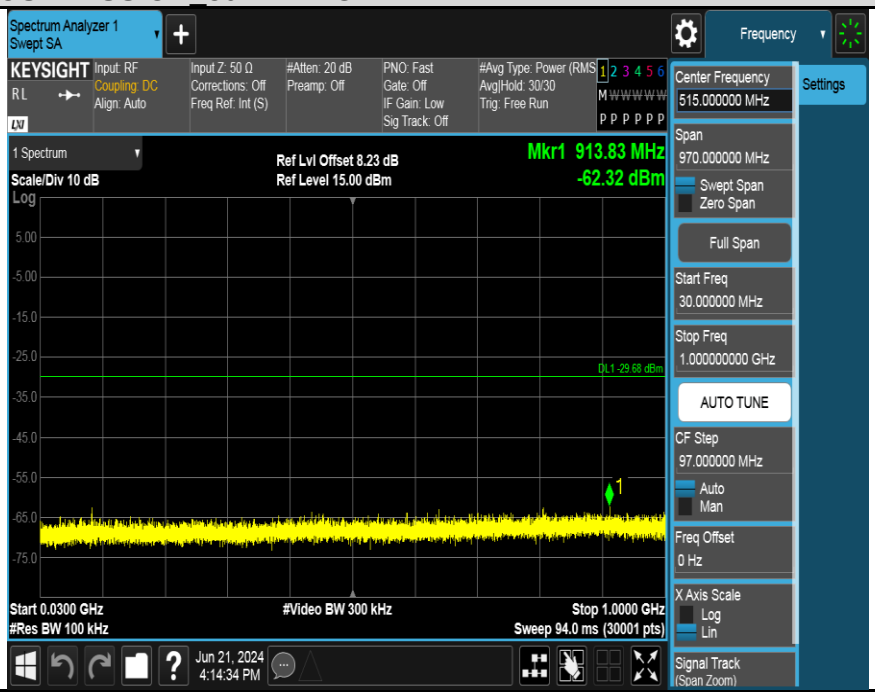
Test Mode	Channel	Verdict
11G	HCH	PASS

HCH SPURIOUS EMISSION_30MHz~1GHz



HCH SPURIOUS EMISSION_1GHz~26.5GHz

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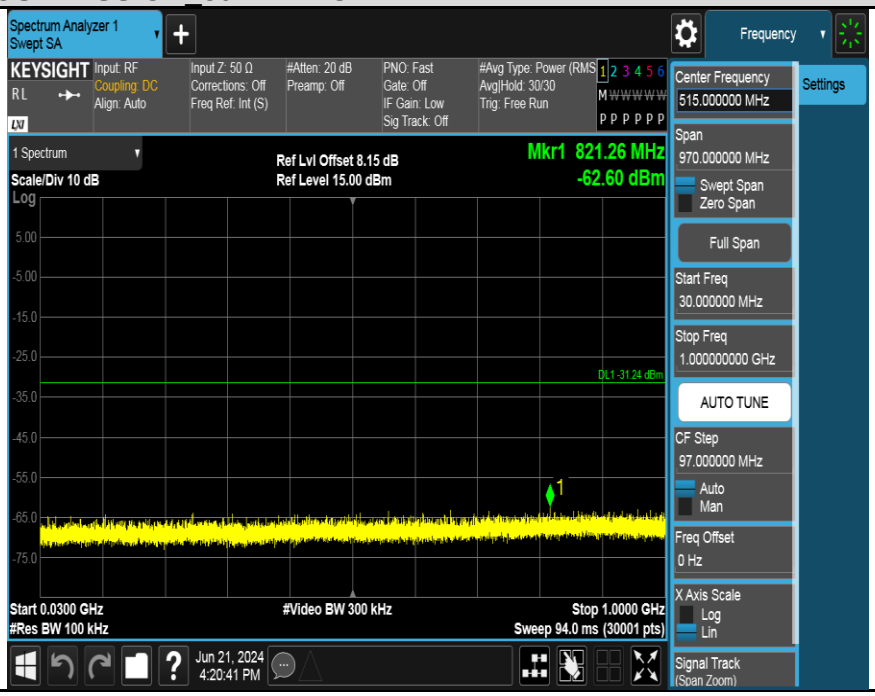
Test Mode	Channel	Verdict
11N HT20	LCH	PASS

LCH SPURIOUS EMISSION_30MHz~1GHz



LCH SPURIOUS EMISSION_1GHz~26.5GHz

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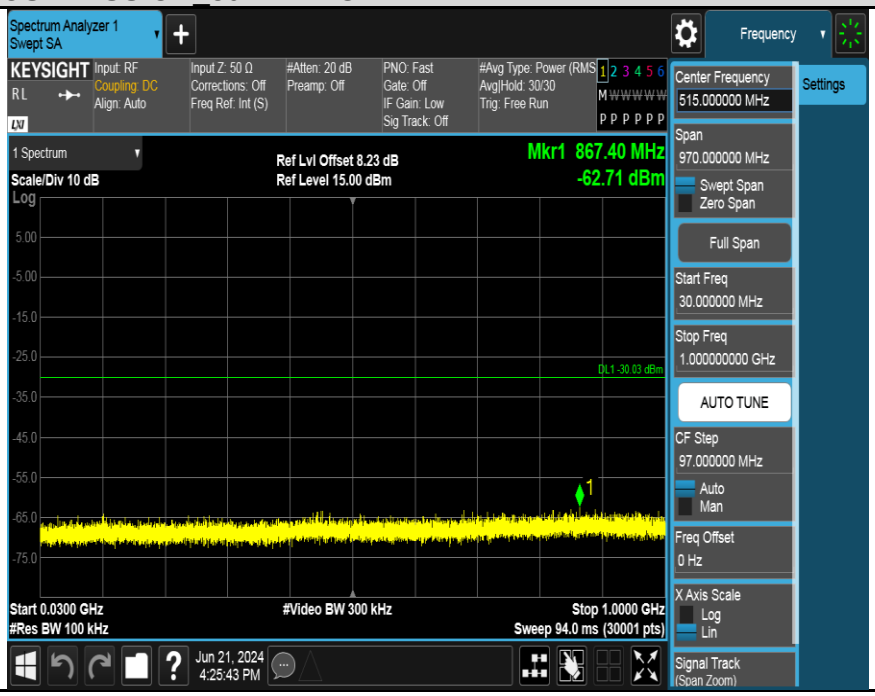
Test Mode	Channel	Verdict
11N HT20	MCH	PASS

MCH SPURIOUS EMISSION_30MHz~1GHz



MCH SPURIOUS EMISSION_1GHz~26.5GHz

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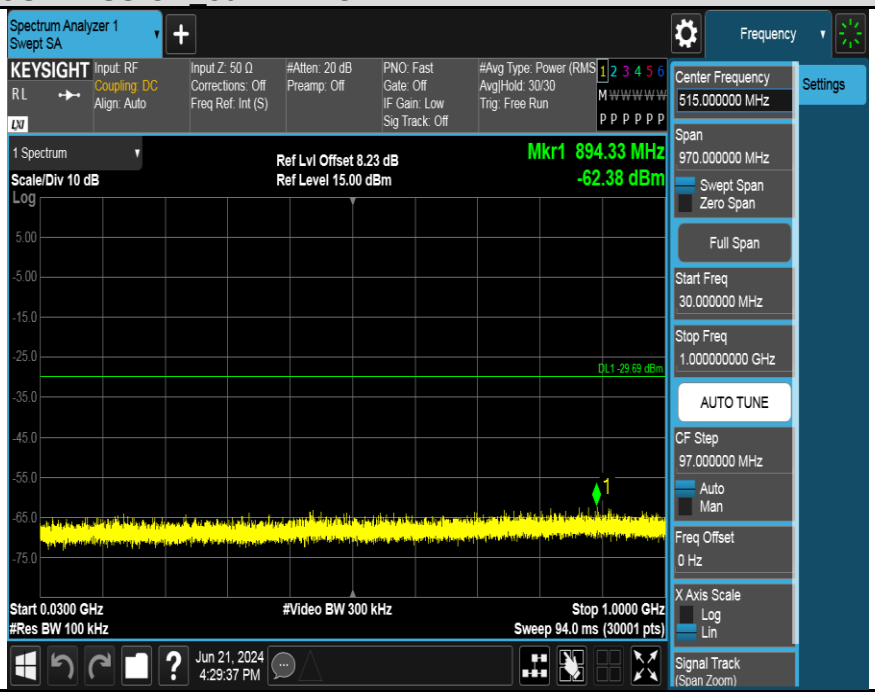
Test Mode	Channel	Verdict
11N HT20	HCH	PASS

HCH SPURIOUS EMISSION_30MHz~1GHz



HCH SPURIOUS EMISSION_1GHz~26.5GHz

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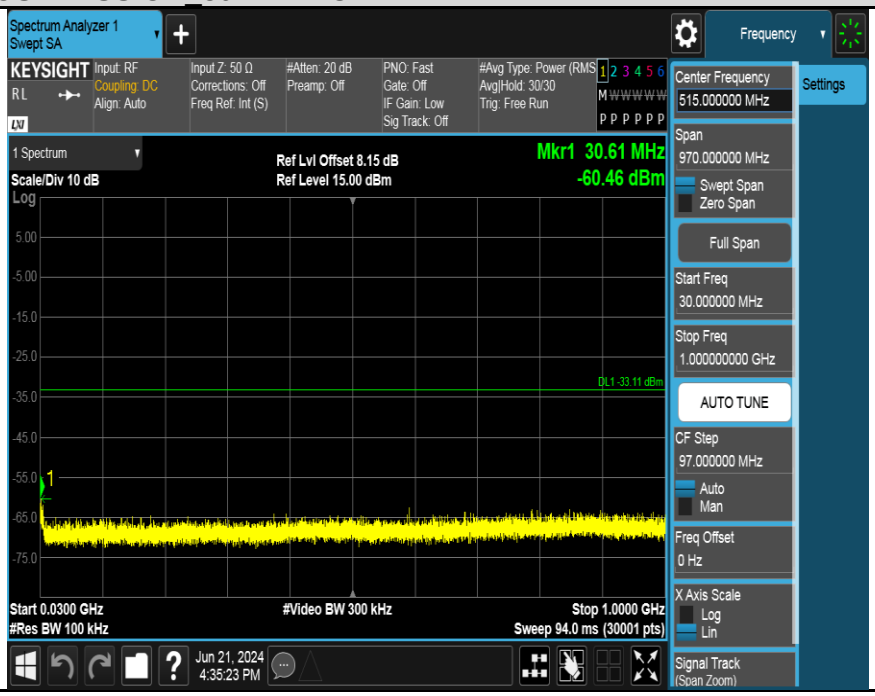
Test Mode	Channel	Verdict
11N HT40	LCH	PASS

LCH SPURIOUS EMISSION_30MHz~1GHz



LCH SPURIOUS EMISSION_1GHz~26.5GHz

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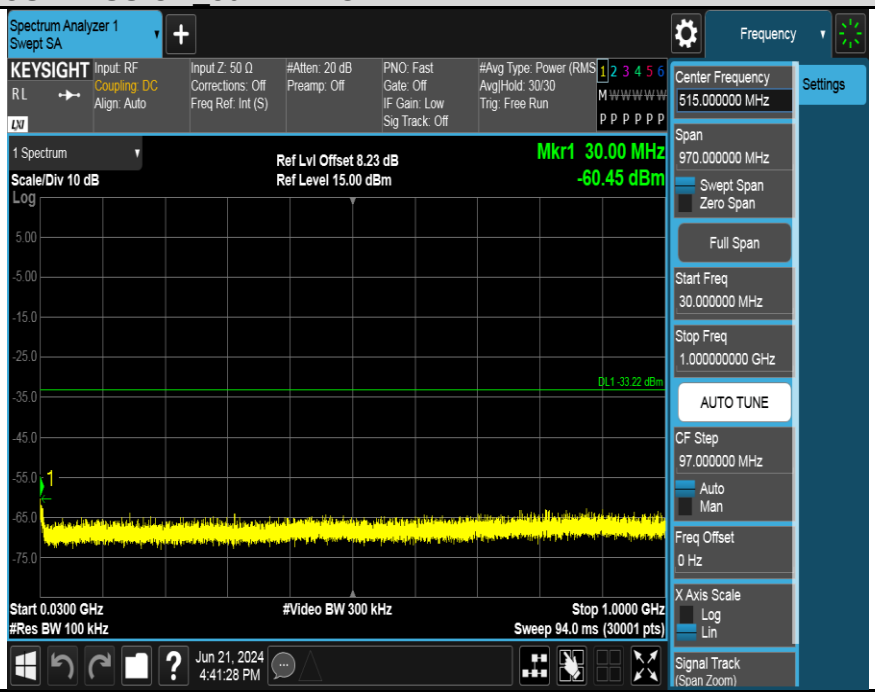
Test Mode	Channel	Verdict
11N HT40	MCH	PASS

MCH SPURIOUS EMISSION_30MHz~1GHz



MCH SPURIOUS EMISSION_1GHz~26.5GHz

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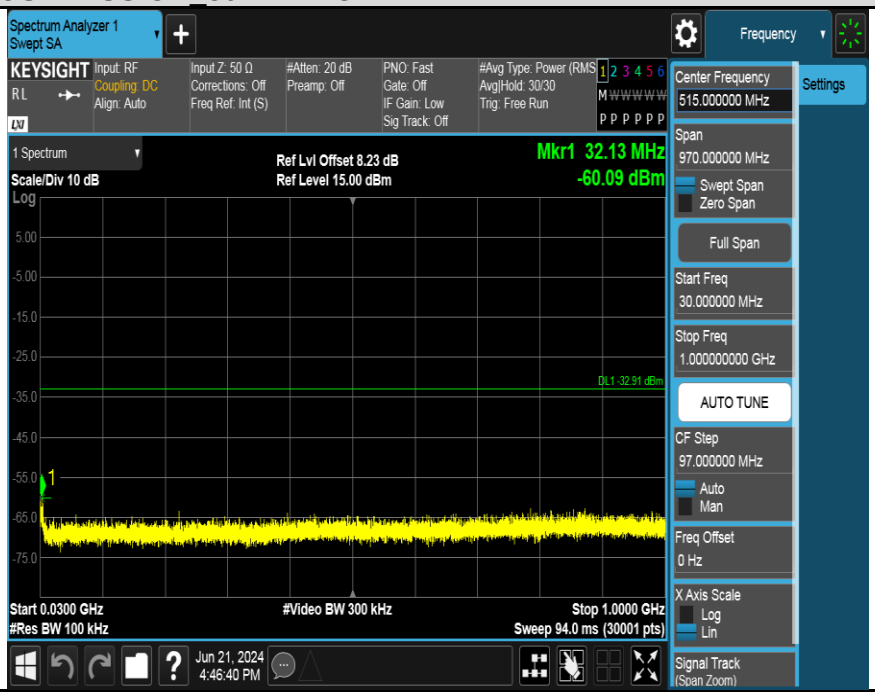
Test Mode	Channel	Verdict
11N HT40	HCH	PASS

HCH SPURIOUS EMISSION_30MHz~1GHz



HCH SPURIOUS EMISSION_1GHz~26.5GHz

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7. RADIATED TEST RESULTS

7.1. LIMITS AND PROCEDURE

LIMITS

Please refer to FCC §15.205 and §15.209, ISED RSS-247 Clause 5.5, ISED RSS-GEN Clause 8.9&6.13 (Transmitter)

Radiation Disturbance Test Limit for ISED (9kHz-1GHz)

Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

Table 5 – General field strength limits at frequencies above 30 MHz

Frequency (MHz)	Field strength (μV/m at 3 m)
30 – 88	100
88 – 216	150
216 – 960	200
Above 960	500

Table 6 – General field strength limits at frequencies below 30 MHz

Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement distance (m)
9 - 490 kHz[Note 1]	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

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Please refer to FCC KDB 558074

Radiation Disturbance Test Limit for FCC (Class B) (9kHz-1GHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.

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Radiation Disturbance Test Limit for FCC (Above 1G)

Frequency (MHz)	dB(uV/m) (at 3 meters)	
	Peak	Average
Above 1000	74	54

Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1]0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	([2])
13.36-13.41			

Note: [1]Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
[2]Above 38.6c

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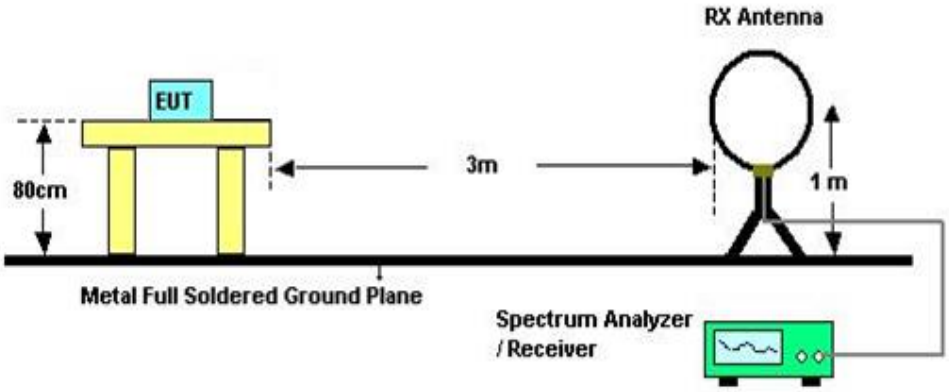
TEST SETUP AND PROCEDURE

Below 30MHz



The setting of the spectrum analyser

RBW	200 Hz (From 9kHz to 0.15MHz) / 9kHz (From 0.15MHz to 30MHz)
VBW	200 Hz (From 9kHz to 0.15MHz) / 9kHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/Average
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 0.8 meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m height antenna tower.

5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector

6. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. For the actual test configuration, please refer to the related item in this test report

(Photographs of the Test Configuration)

8. The limits in FCC 47 CFR, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 Ω. For example, the measurement frequency X kHz resulted in a

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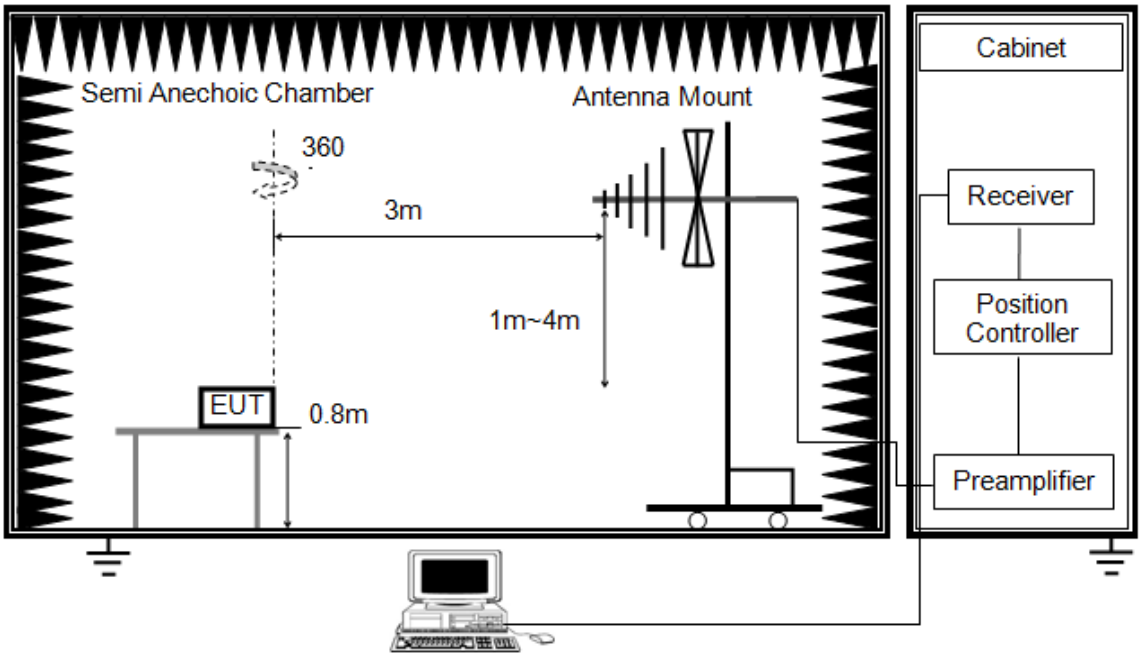
level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1G



The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 0.8 meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

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6. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

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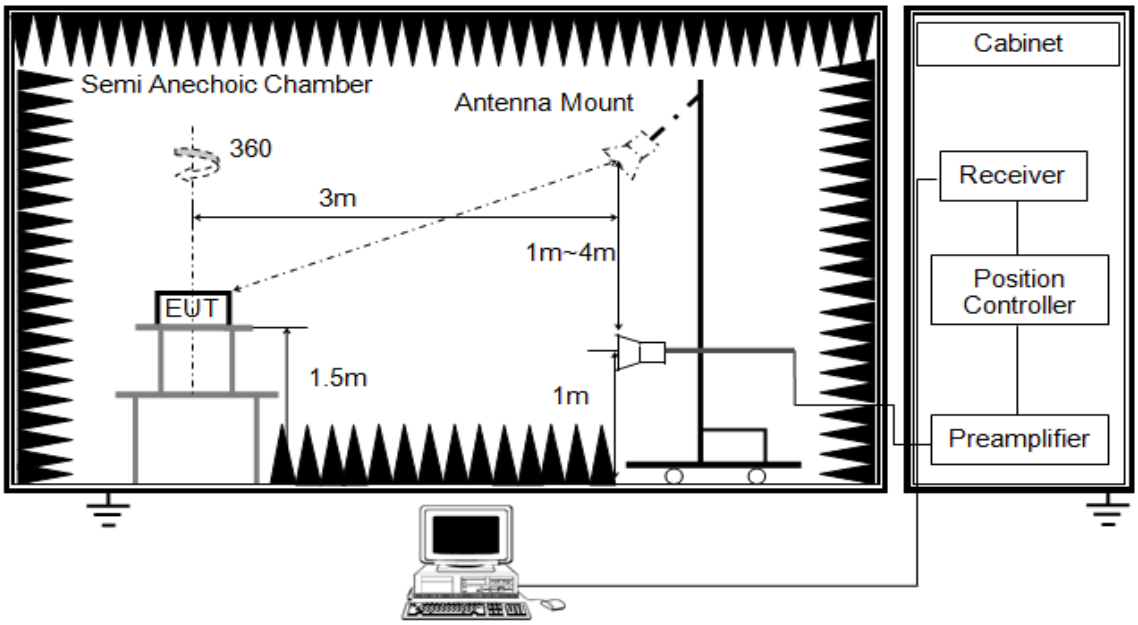
Above 1G



The setting of the spectrum analyser

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: See note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 1.5m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz, the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements; and 1 MHz resolution bandwidth with video bandwidth ≥1/T but not less than the setting list in section 7.1 when use peak detector, max hold to be run for at least [50*(1/Duty Cycle)] traces for average measurements. For the Duty Cycle need to refer the results in section 7.1.

7. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

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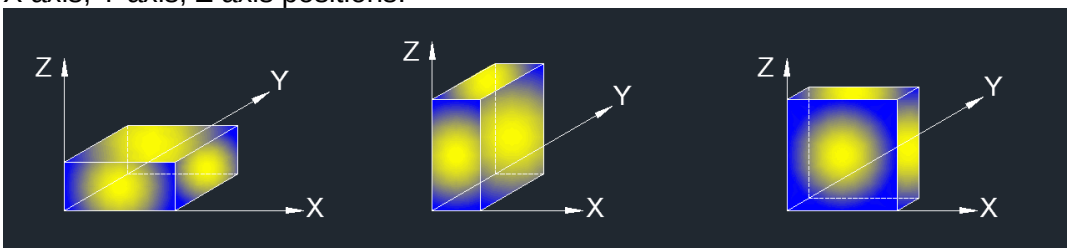
X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in one orthogonal axis (X axis) emissions had been tested and recorded in the report.

Note 2: The EUT can transmit with/without the dock, both the two conditions have been tested, the condition without dock was the worse case and recorded in this test report.

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7.2. TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

7.3. RESTRICTED BANDEDGE

TEST RESULT TABLE

Test Mode	Channel	Puw(dBm)	Verdict
11B	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
11G	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
11N HT20	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
11N HT40	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS

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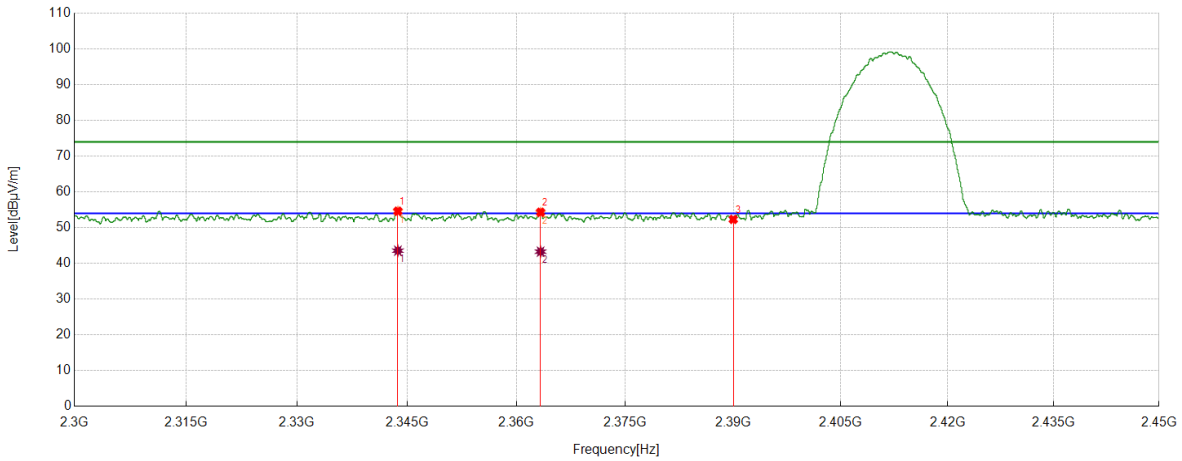
TEST GRAPHS

Test Mode	Channel	Polarization	Verdict
11B	LCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2343.768	41.11	13.48	54.59	74.00	-19.41	Horizontal
2	2363.3267	40.82	13.49	54.31	74.00	-19.69	Horizontal
3	2390.0000	38.83	13.48	52.31	74.00	-21.69	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2343.768	30.08	13.48	43.56	54.00	-10.44	Horizontal
2	2363.3267	29.80	13.49	43.29	54.00	-10.71	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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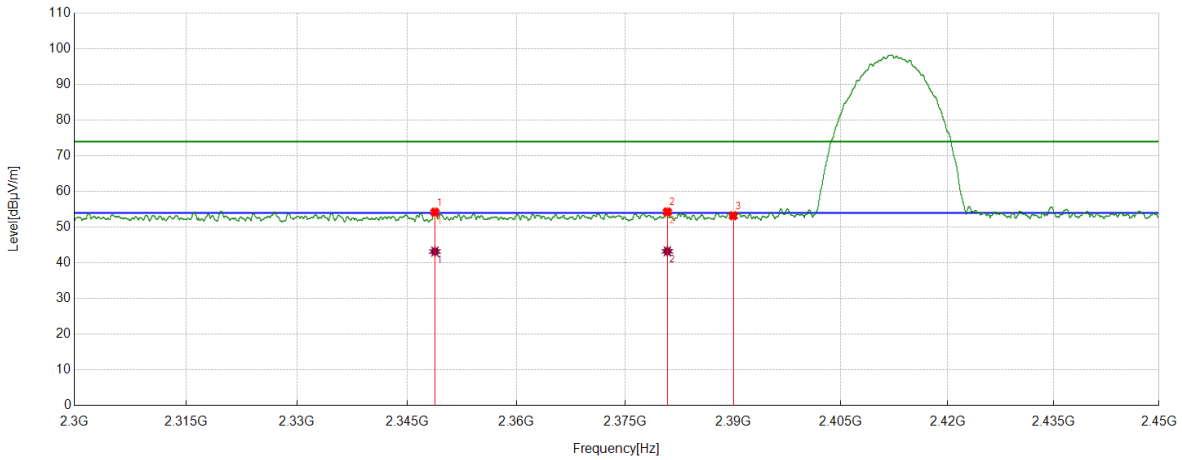
Test Mode	Channel	Polarization	Verdict
11B	LCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2348.8311	40.66	13.53	54.19	74.00	-19.81	Vertical
2	2380.8414	40.68	13.59	54.27	74.00	-19.73	Vertical
3	2390.0000	39.73	13.48	53.21	74.00	-20.79	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2348.8311	29.65	13.53	43.18	54.00	-10.82	Vertical
2	2380.8414	29.66	13.59	43.25	54.00	-10.75	Vertical

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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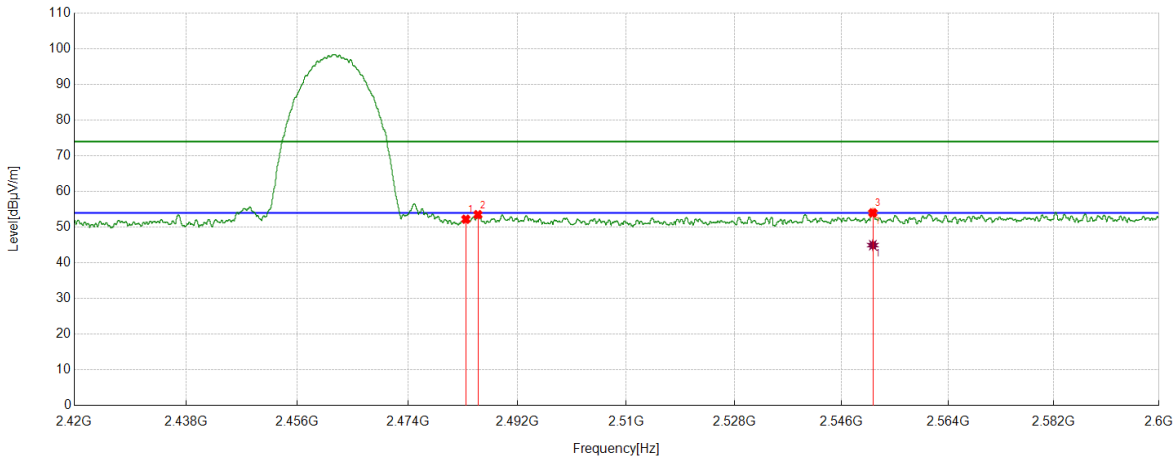
Test Mode	Channel	Polarization	Verdict
11B	HCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	37.97	14.25	52.22	74.00	-21.78	Horizontal
2	2485.4832	39.22	14.29	53.51	74.00	-20.49	Horizontal
3	2551.2589	39.40	14.62	54.02	74.00	-19.98	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2551.2589	30.34	14.62	44.96	54.00	-9.04	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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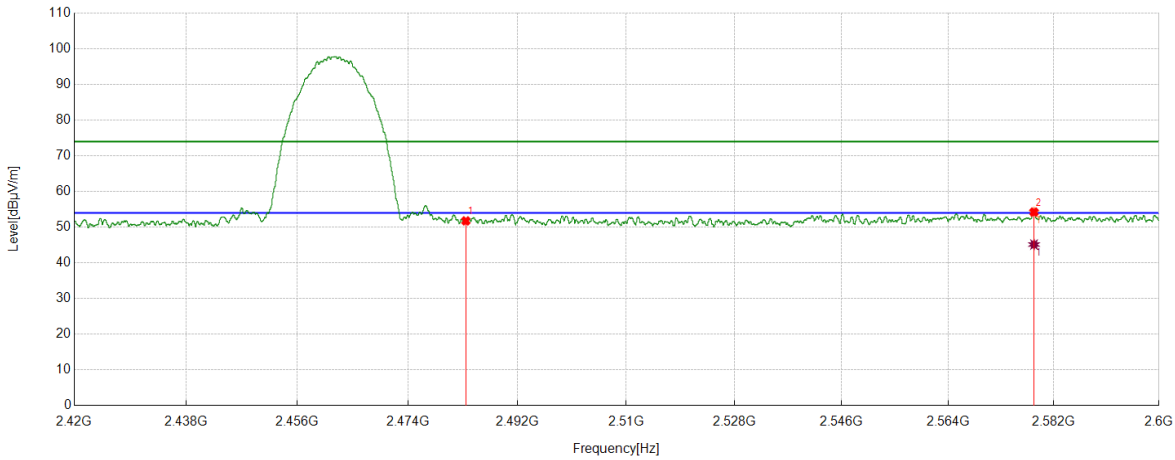
Test Mode	Channel	Polarization	Verdict
11B	HCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	37.51	14.25	51.76	74.00	-22.24	Vertical
2	2578.5998	39.48	14.75	54.23	74.00	-19.77	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2578.5998	30.39	14.75	45.14	54.00	-8.86	Vertical

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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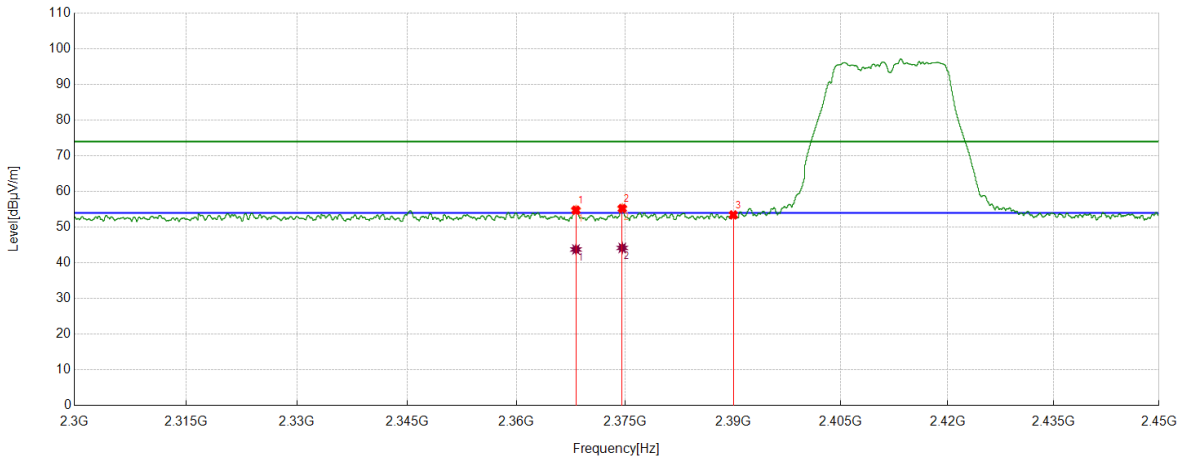
Test Mode	Channel	Polarization	Verdict
11G	LCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2368.2023	41.23	13.53	54.76	74.00	-19.24	Horizontal
2	2374.5968	41.67	13.57	55.24	74.00	-18.76	Horizontal
3	2390.0000	39.96	13.48	53.44	74.00	-20.56	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2368.2023	30.23	13.53	43.76	54.00	-10.24	Horizontal
2	2374.5968	30.62	13.57	44.19	54.00	-9.81	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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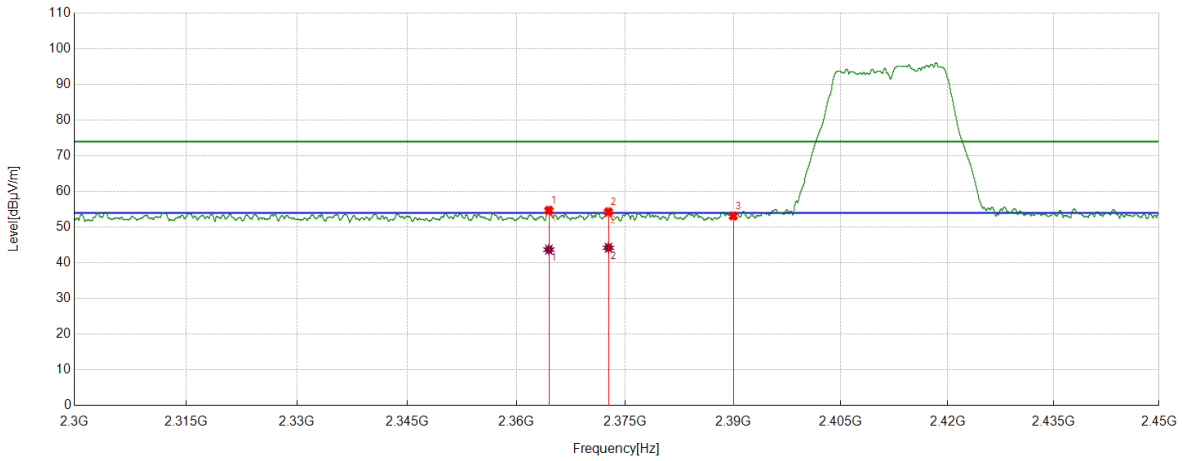
Test Mode	Channel	Polarization	Verdict
11G	LCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2364.4706	41.22	13.50	54.72	74.00	-19.28	Vertical
2	2372.6841	40.72	13.56	54.28	74.00	-19.72	Vertical
3	2390.0000	39.67	13.48	53.15	74.00	-20.85	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2364.4706	30.21	13.50	43.71	54.00	-10.29	Vertical
2	2372.6841	30.69	13.56	44.25	54.00	-9.75	Vertical

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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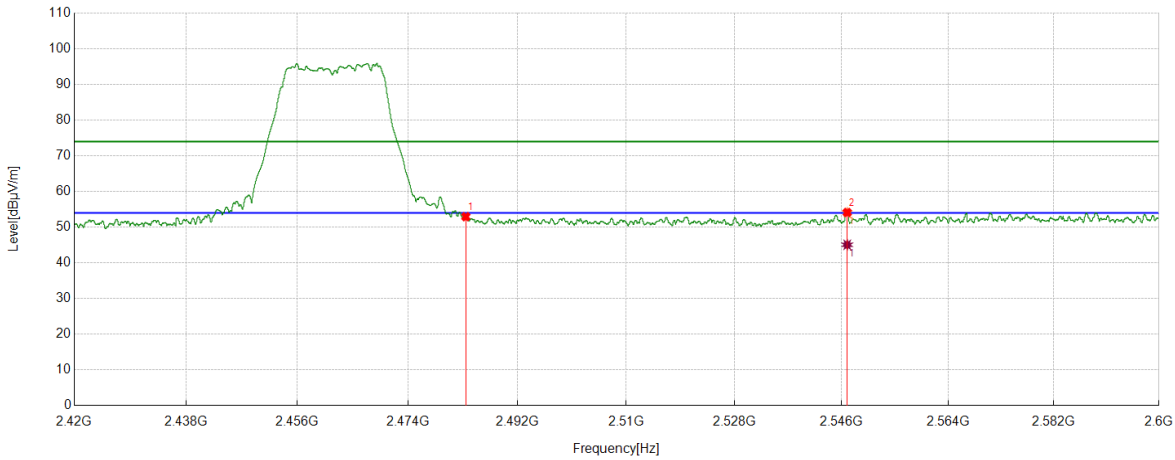
Test Mode	Channel	Polarization	Verdict
11G	HCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	38.69	14.25	52.94	74.00	-21.06	Horizontal
2	2546.9384	39.51	14.60	54.11	74.00	-19.89	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2546.9384	30.47	14.60	45.07	54.00	-8.93	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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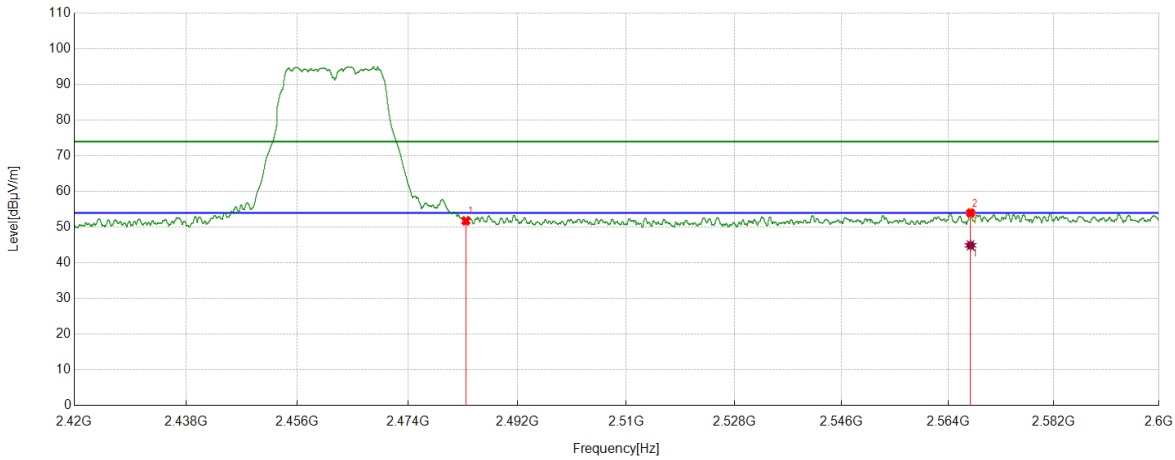
Test Mode	Channel	Polarization	Verdict
11G	HCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	37.49	14.25	51.74	74.00	-22.26	Vertical
2	2567.7985	39.34	14.65	53.99	74.00	-20.01	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2567.7985	30.26	14.65	44.91	54.00	-9.09	Vertical

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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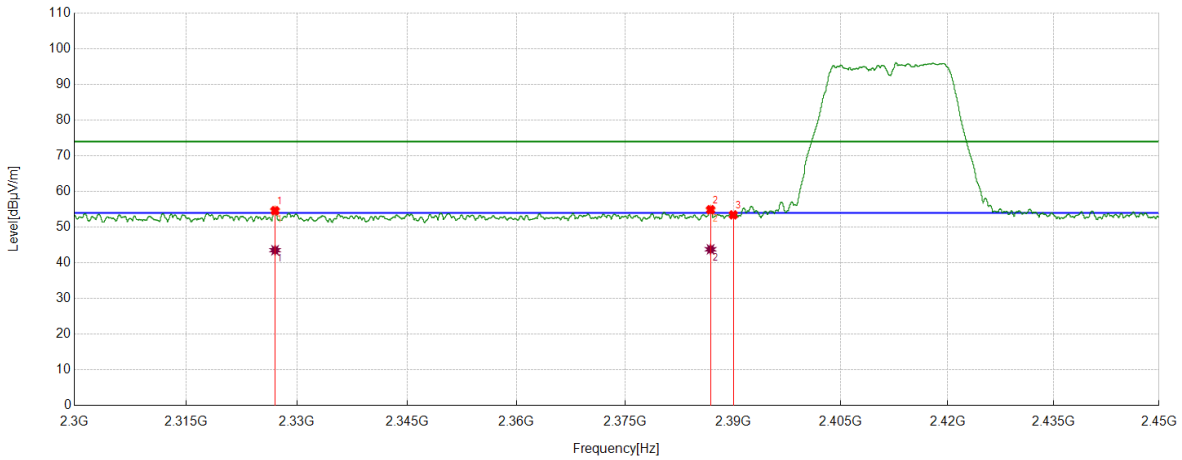
Test Mode	Channel	Polarization	Verdict
11N HT20	LCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2327.0596	41.15	13.47	54.62	74.00	-19.38	Horizontal
2	2386.8421	41.37	13.52	54.89	74.00	-19.11	Horizontal
3	2390.0000	39.97	13.48	53.45	74.00	-20.55	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2327.0596	30.08	13.47	43.55	54.00	-10.45	Horizontal
2	2386.8421	30.28	13.52	43.80	54.00	-10.20	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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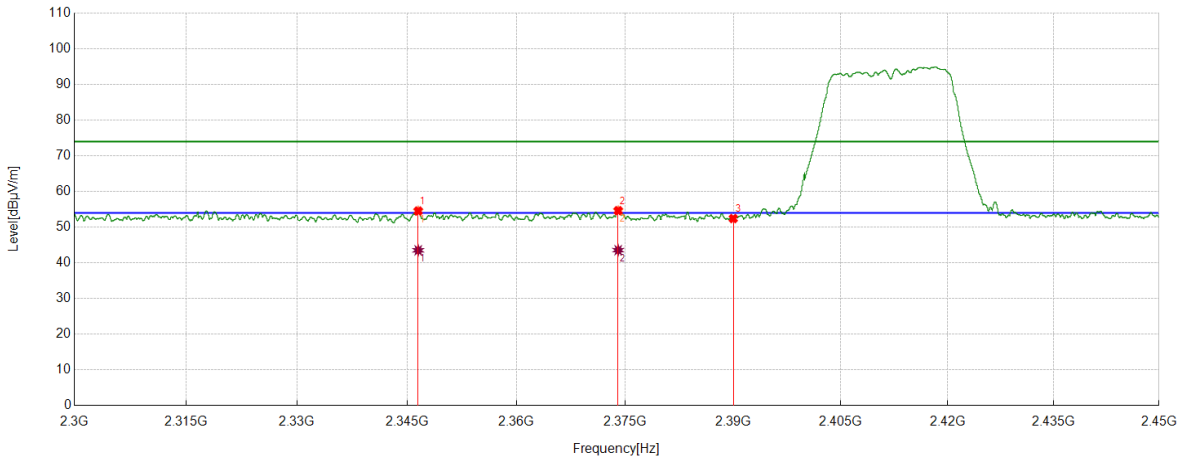
Test Mode	Channel	Polarization	Verdict
11N HT20	LCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2346.5433	41.03	13.50	54.53	74.00	-19.47	Vertical
2	2374.0343	41.05	13.57	54.62	74.00	-19.38	Vertical
3	2390.0000	38.93	13.48	52.41	74.00	-21.59	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2346.5433	30.02	13.50	43.52	54.00	-10.48	Vertical
2	2374.0343	29.99	13.57	43.56	54.00	-10.44	Vertical

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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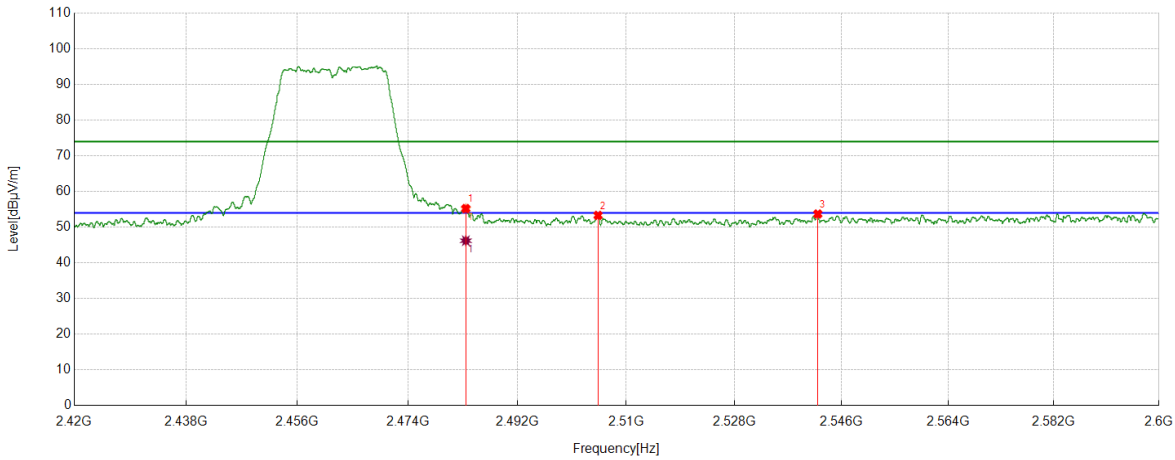
Test Mode	Channel	Polarization	Verdict
11N HT20	HCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	40.96	14.25	55.21	74.00	-18.79	Horizontal
2	2505.3082	38.92	14.38	53.30	74.00	-20.70	Horizontal
3	2541.9877	39.13	14.56	53.69	74.00	-20.31	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	31.96	14.25	46.21	54.00	-7.79	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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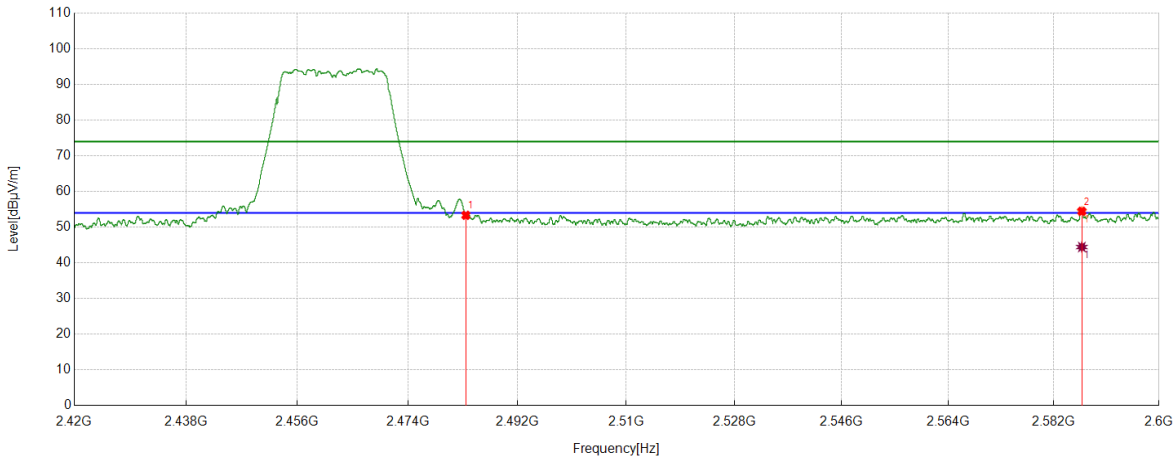
Test Mode	Channel	Polarization	Verdict
11N HT20	HCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	39.08	14.25	53.33	74.00	-20.67	Vertical
2	2586.7683	39.64	14.81	54.45	74.00	-19.55	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2586.7683	29.63	14.81	44.44	54.00	-9.56	Vertical

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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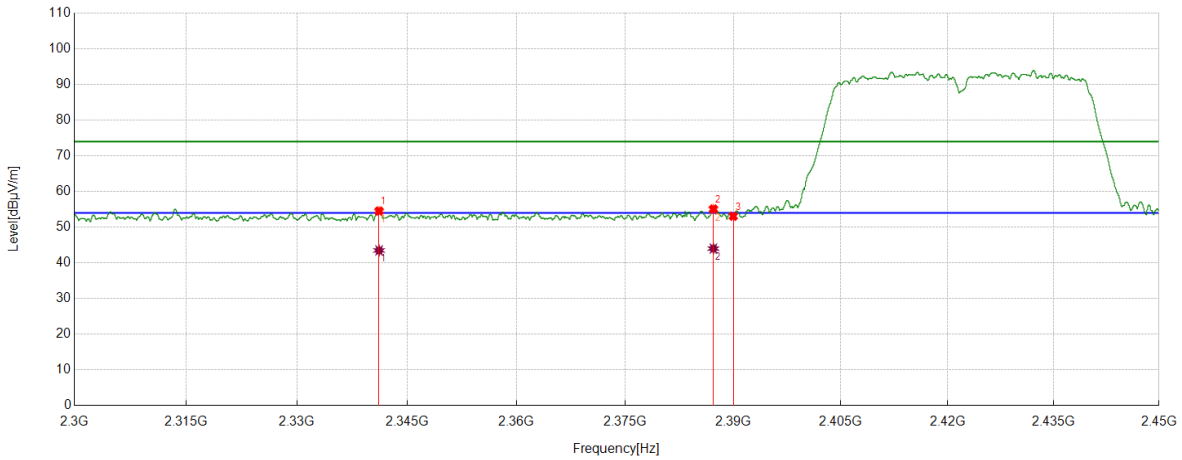
Test Mode	Channel	Polarization	Verdict
11N HT40	LCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2341.1989	41.08	13.45	54.53	74.00	-19.47	Horizontal
2	2387.2359	41.55	13.52	55.07	74.00	-18.93	Horizontal
3	2390.0000	39.59	13.48	53.07	74.00	-20.93	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2341.1989	30.03	13.45	43.48	54.00	-10.52	Horizontal
2	2387.2359	30.49	13.52	44.01	54.00	-9.99	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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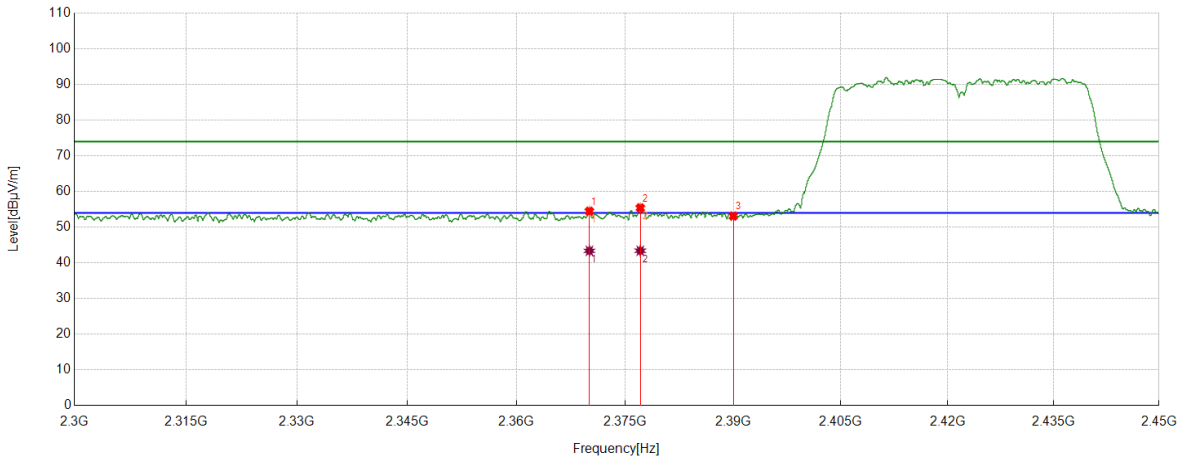
Test Mode	Channel	Polarization	Verdict
11N HT40	LCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2370.0588	40.92	13.55	54.47	74.00	-19.53	Vertical
2	2377.0909	41.82	13.59	55.41	74.00	-18.59	Vertical
3	2390.0000	39.63	13.48	53.11	74.00	-20.89	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2370.0588	29.83	13.55	43.38	54.00	-10.62	Vertical
2	2377.0909	29.81	13.59	43.40	54.00	-10.60	Vertical

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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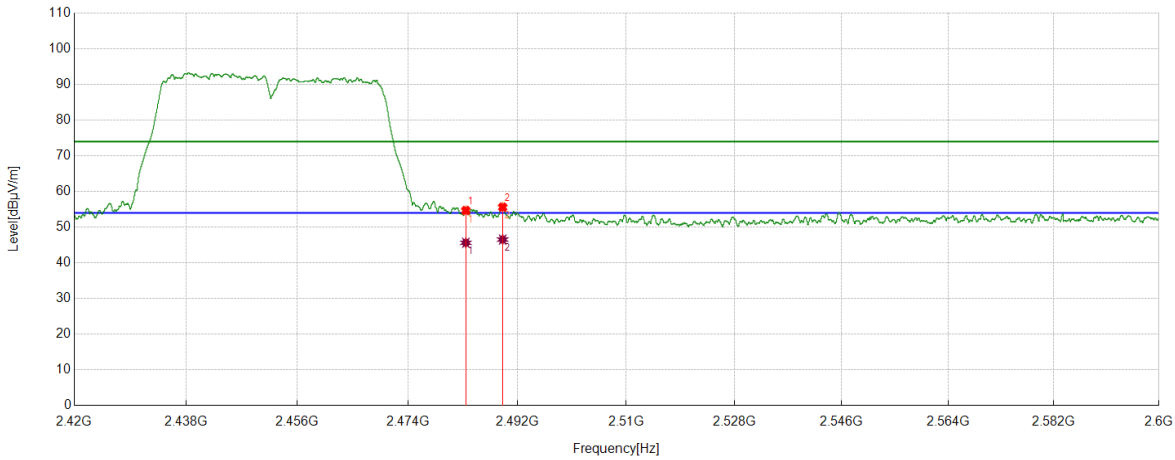
Test Mode	Channel	Polarization	Verdict
11N HT40	HCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	40.43	14.25	54.68	74.00	-19.32	Horizontal
2	2489.5562	41.25	14.36	55.61	74.00	-18.39	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	31.38	14.25	45.63	54.00	-8.37	Horizontal
2	2489.5562	32.17	14.36	46.53	54.00	-7.47	Horizontal

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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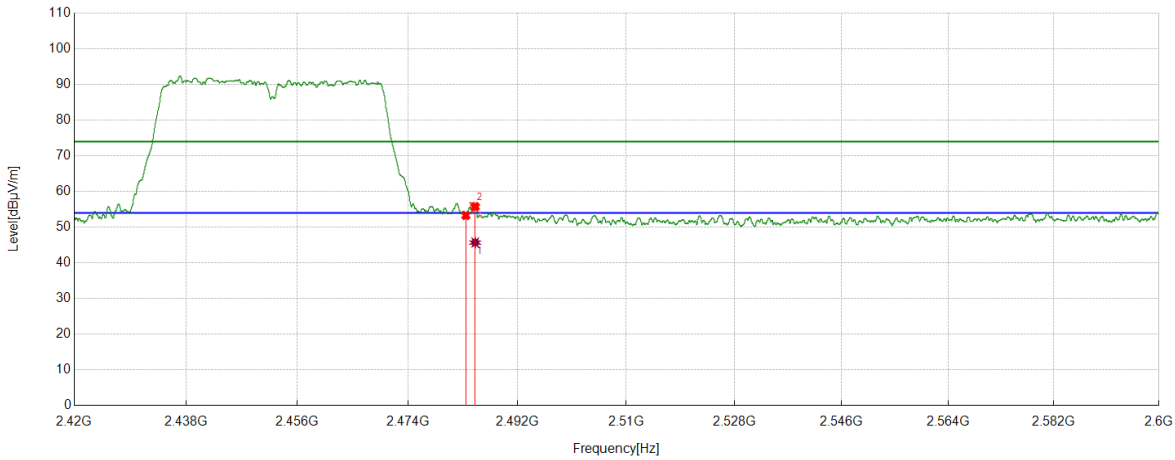
Test Mode	Channel	Polarization	Verdict
11N HT40	HCH	Vertical	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	39.03	14.25	53.28	74.00	-20.72	Vertical
2	2485.0331	41.48	14.28	55.76	74.00	-18.24	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2485.0331	31.41	14.28	45.69	54.00	-8.31	Vertical

Note: 1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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7.4. SPURIOUS EMISSIONS

TEST RESULTS TABLE

1) For 1GHz~18GHz

Test Mode	Channel	Puw(dBm)	Verdict
11B	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
11G	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
11N HT20	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
11N HT40	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS

2) For 9kHz~30MHz

Test Mode	Channel	Puw(dBm)	Verdict
11B	HCH	<Limit	PASS

Remark:
1) Through pre-testing all the test modes and test channels, but only the data of the worst case is included in this test report.

3) For 30MHz~1GHz

Test Mode	Channel	Puw(dBm)	Verdict
11B	HCH	<Limit	PASS

Remark:
1) Through pre-testing all the test modes and test channels, but only the data of the worst case is included in this test report.

4) For 18GHz~26.5GHz

Test Mode	Channel	Puw(dBm)	Verdict
11B	HCH	<Limit	PASS

Remark:
1) Through pre-testing all the test modes and test channels, but only the data of the worst case is included in this test report.

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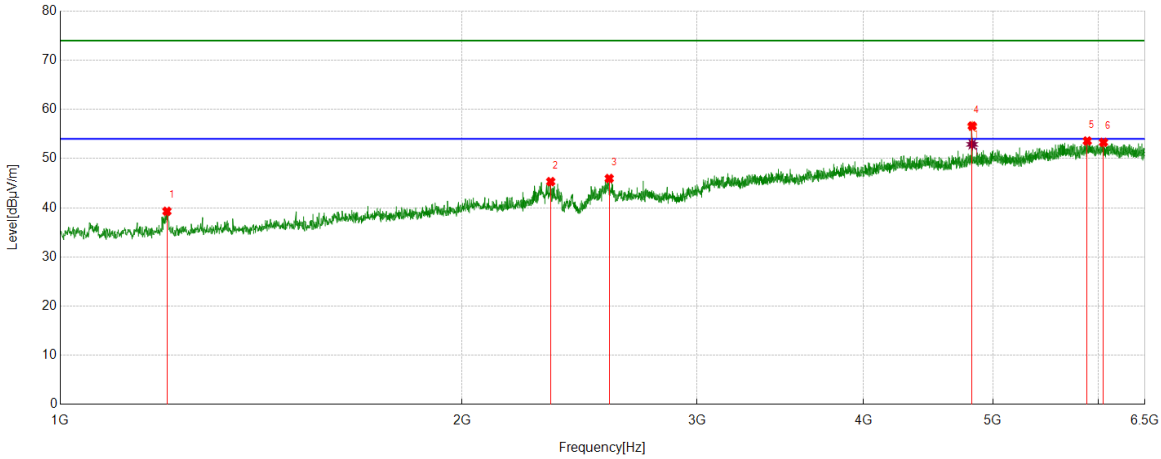
Part 1: 1GHz~6.5GHz

HARMONICS AND SPURIOUS EMISSIONS

Test Mode	Channel	Polarization	Verdict
11B	LCH	Horizontal	PASS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1202.1503	41.53	-2.25	39.28	74.00	-34.72	Horizontal
2	2331.1664	40.28	5.03	45.31	74.00	-28.69	Horizontal
3	2578.6973	39.95	6.00	45.95	74.00	-28.05	Horizontal
4	4824.3530	40.96	15.67	56.63	74.00	-17.37	Horizontal
5	5883.9230	35.80	17.78	53.58	74.00	-20.42	Horizontal
6	6051.0064	35.23	18.07	53.30	74.00	-20.70	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4824.3530	37.23	15.67	52.90	54.00	-1.10	Horizontal

Note: 1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Peak: Peak detector.
5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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