



802.11n HT20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2412									
V	4824	66.52	50.65	6.88	31.29	54.04	74	-19.96	PK
V	4824	55.63	50.65	6.88	31.29	43.15	54	-10.85	AV
V	7236	66.48	49.98	7.16	36.63	60.29	74	-13.71	PK
V	7236	46.56	49.98	7.16	36.63	40.37	54	-13.63	AV
V	16087	46.65	51.53	11.34	41.52	47.98	74	-26.02	PK
H	4824	66.44	50.65	6.88	31.29	53.96	74	-20.04	PK
H	4824	55.85	50.65	6.88	31.29	43.37	54	-10.63	AV
H	7236	64.56	49.98	7.16	36.63	58.37	74	-15.63	PK
H	7236	47.85	49.98	7.16	36.63	41.66	54	-12.34	AV
H	16087	47.31	51.53	11.34	41.52	48.64	74	-25.36	PK
operation frequency:2437									
V	4874	66.66	50.67	6.89	31.38	54.26	74	-19.74	PK
V	4874	54.58	50.67	6.89	31.38	42.18	54	-11.82	AV
V	7311	65.63	50.02	7.24	36.63	59.48	74	-14.52	PK
V	7311	47.58	50.02	7.24	36.63	41.43	54	-12.57	AV
V	16087	47.45	51.53	11.34	41.52	48.78	74	-25.22	PK
H	4874	65.41	50.67	6.89	31.38	53.01	74	-20.99	PK
H	4874	53.56	50.67	6.89	31.38	41.16	54	-12.84	AV
H	7311	65.58	50.02	7.24	36.63	59.43	74	-14.57	PK
H	7311	46.84	50.02	7.24	36.63	40.69	54	-13.31	AV
H	16087	46.69	51.53	11.34	41.52	48.02	74	-25.98	PK
operation frequency:2462									
V	4924	67.25	50.79	6.83	31.36	54.65	74	-19.35	PK
V	4924	54.63	50.79	6.83	31.36	42.03	54	-11.97	AV
V	7386	64.44	50.11	7.25	36.58	58.16	74	-15.84	PK
V	7386	46.58	50.11	7.25	36.58	40.3	54	-13.7	AV
V	16087	48.66	51.53	11.34	41.52	49.99	74	-24.01	PK
H	4924	67.52	50.79	6.83	31.36	54.92	74	-19.08	PK
H	4924	54.41	50.79	6.83	31.36	41.81	54	-12.19	AV
H	7386	65.37	50.11	7.25	36.58	59.09	74	-14.91	PK
H	7386	47.56	50.11	7.25	36.58	41.28	54	-12.72	AV
H	16087	47.21	51.53	11.34	41.52	48.54	74	-25.46	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n HT40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2422									
V	4844	66.65	50.67	6.89	31.32	54.19	74	-19.81	PK
V	4844	55.51	50.67	6.89	31.32	43.05	54	-10.95	AV
V	7266	66.46	50.01	7.15	36.62	60.22	74	-13.78	PK
V	7266	46.68	50.01	7.15	36.62	40.44	54	-13.56	AV
V	16087	46.41	51.53	11.34	41.52	47.74	74	-26.26	PK
H	4844	66.83	50.67	6.89	31.32	54.37	74	-19.63	PK
H	4844	55.52	50.67	6.89	31.32	43.06	54	-10.94	AV
H	7266	64.44	50.01	7.15	36.62	58.2	74	-15.8	PK
H	7266	47.68	50.01	7.15	36.62	41.44	54	-12.56	AV
H	16087	47.63	51.53	11.34	41.52	48.96	74	-25.04	PK
operation frequency:2437									
V	4874	66.28	50.67	6.89	31.38	53.88	74	-20.12	PK
V	4874	54.36	50.67	6.89	31.38	41.96	54	-12.04	AV
V	7311	65.15	50.02	7.24	36.63	59	74	-15	PK
V	7311	46.41	50.02	7.24	36.63	40.26	54	-13.74	AV
V	16087	47.53	51.53	11.34	41.52	48.86	74	-25.14	PK
H	4874	65.54	50.67	6.89	31.38	53.14	74	-20.86	PK
H	4874	53.58	50.67	6.89	31.38	41.18	54	-12.82	AV
H	7311	65.46	50.02	7.24	36.63	59.31	74	-14.69	PK
H	7311	47.63	50.02	7.24	36.63	41.48	54	-12.52	AV
H	16087	46.85	51.53	11.34	41.52	48.18	74	-25.82	PK
operation frequency:2452									
V	4904	67.21	50.76	6.81	31.31	54.57	74	-19.43	PK
V	4904	54.52	50.76	6.81	31.31	41.88	54	-12.12	AV
V	7356	64.83	50.08	7.21	36.52	58.48	74	-15.52	PK
V	7356	47.85	50.08	7.21	36.52	41.5	54	-12.5	AV
V	16087	48.63	51.53	11.34	41.52	49.96	74	-24.04	PK
H	4904	67.44	50.76	6.81	31.31	54.8	74	-19.2	PK
H	4904	54.68	50.76	6.81	31.31	42.04	54	-11.96	AV
H	7356	65.44	50.08	7.21	36.52	59.09	74	-14.91	PK
H	7356	46.21	50.08	7.21	36.52	39.86	54	-14.14	AV
H	16087	47.89	51.53	11.34	41.52	49.22	74	-24.78	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



3.3 RADIATED BAND EMISSION MEASUREMENT

3.3.1 TEST REQUIREMENT:

FCC Part15 C Section 15.209 and 15.205

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

3.3.2 TEST PROCEDURE

Above 1GHz test procedure as below:

1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
7. Test the EUT in the lowest channel,the Highest channel

Note:

The horizontal and vertical polarities of the antenna were tested, and a pre-test was conducted on the EUT placement as three orthogonal axes X,Y,Z. The worst display of the test results was the Y-axis. The worst case emissions were reported.

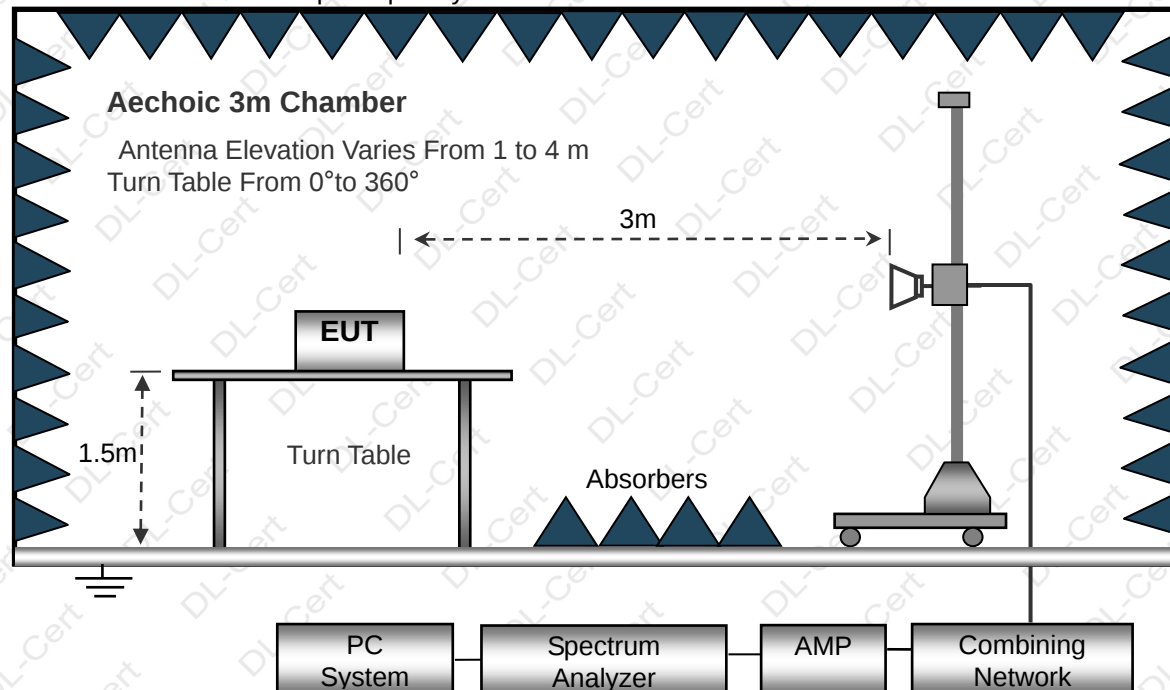
3.3.3 DEVIATION FROM TEST STANDARD

No deviation



3.3.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



3.3.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.3.6 TEST RESULT

802.11b

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2412									
V	2310	77.21	52.11	2.68	27.32	55.1	74	-18.9	PK
V	2310	65.86	52.11	2.68	27.32	43.75	54	-10.25	AV
V	2390	76.44	52.13	2.52	27.46	54.29	74	-19.71	PK
V	2390	64.85	52.13	2.52	27.46	42.7	54	-11.3	AV
H	2310	76.63	52.11	2.68	27.32	54.52	74	-19.48	PK
H	2310	65.55	52.11	2.68	27.32	43.44	54	-10.56	AV
H	2390	76.95	52.13	2.52	27.46	54.8	74	-19.2	PK
H	2390	65.87	52.13	2.52	27.46	43.72	54	-10.28	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2462									
V	2483.5	77.52	52.23	2.86	27.44	55.59	74	-18.41	PK
V	2483.5	65.83	52.23	2.86	27.44	43.9	54	-10.1	AV
V	2500	76.38	52.26	2.88	27.49	54.49	74	-19.51	PK
V	2500	65.85	52.26	2.88	27.49	43.96	54	-10.04	AV
H	2483.5	76.64	52.23	2.86	27.44	54.71	74	-19.29	PK
H	2483.5	66.81	52.23	2.86	27.44	44.88	54	-9.12	AV
H	2500	78.16	52.26	2.88	27.49	56.27	74	-17.73	PK
H	2500	67.67	52.26	2.88	27.49	45.78	54	-8.22	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11g

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	2310	76.52	52.11	2.68	27.32	54.41	74	-19.59	PK
V	2310	65.26	52.11	2.68	27.32	43.15	54	-10.85	AV
V	2390	76.57	52.13	2.52	27.46	54.42	74	-19.58	PK
V	2390	64.55	52.13	2.52	27.46	42.4	54	-11.6	AV
H	2310	76.21	52.11	2.68	27.32	54.1	74	-19.9	PK
H	2310	65.46	52.11	2.68	27.32	43.35	54	-10.65	AV
H	2390	76.85	52.13	2.52	27.46	54.7	74	-19.3	PK
H	2390	65.84	52.13	2.52	27.46	43.69	54	-10.31	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2462									
V	2483.5	76.21	52.23	2.86	27.44	54.28	74	-19.72	PK
V	2483.5	65.76	52.23	2.86	27.44	43.83	54	-10.17	AV
V	2500	76.78	52.26	2.88	27.49	54.89	74	-19.11	PK
V	2500	65.41	52.26	2.88	27.49	43.52	54	-10.48	AV
H	2483.5	76.63	52.23	2.86	27.44	54.7	74	-19.3	PK
H	2483.5	65.52	52.23	2.86	27.44	43.59	54	-10.41	AV
H	2500	76.54	52.26	2.88	27.49	54.65	74	-19.35	PK
H	2500	65.58	52.26	2.88	27.49	43.69	54	-10.31	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n HT20

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	2310	76.63	52.11	2.68	27.32	54.52	74	-19.48	PK
V	2310	65.52	52.11	2.68	27.32	43.41	54	-10.59	AV
V	2390	77.54	52.13	2.52	27.46	55.39	74	-18.61	PK
V	2390	65.48	52.13	2.52	27.46	43.33	54	-10.67	AV
H	2310	77.35	52.11	2.68	27.32	55.24	74	-18.76	PK
H	2310	65.58	52.11	2.68	27.32	43.47	54	-10.53	AV
H	2390	76.68	52.13	2.52	27.46	54.53	74	-19.47	PK
H	2390	65.63	52.13	2.52	27.46	43.48	54	-10.52	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2462									
V	2483.5	77.28	52.23	2.86	27.44	55.35	74	-18.65	PK
V	2483.5	65.35	52.23	2.86	27.44	43.42	54	-10.58	AV
V	2500	76.53	52.26	2.88	27.49	54.64	74	-19.36	PK
V	2500	65.41	52.26	2.88	27.49	43.52	54	-10.48	AV
H	2483.5	77.63	52.23	2.86	27.44	55.7	74	-18.3	PK
H	2483.5	65.85	52.23	2.86	27.44	43.92	54	-10.08	AV
H	2500	76.41	52.26	2.88	27.49	54.52	74	-19.48	PK
H	2500	66.49	52.26	2.88	27.49	44.6	54	-9.4	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n HT40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2422									
V	2310	76.52	52.11	2.68	27.32	54.41	74	-19.59	PK
V	2310	65.56	52.11	2.68	27.32	43.45	54	-10.55	AV
V	2390	77.88	52.13	2.52	27.46	55.73	74	-18.27	PK
V	2390	65.85	52.13	2.52	27.46	43.7	54	-10.3	AV
H	2310	77.57	52.11	2.68	27.32	55.46	74	-18.54	PK
H	2310	65.26	52.11	2.68	27.32	43.15	54	-10.85	AV
H	2390	76.65	52.13	2.52	27.46	54.5	74	-19.5	PK
H	2390	65.63	52.13	2.52	27.46	43.48	54	-10.52	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2452									
V	2483.5	77.63	52.23	2.86	27.44	55.7	74	-18.3	PK
V	2483.5	65.82	52.23	2.86	27.44	43.89	54	-10.11	AV
V	2500	76.16	52.26	2.88	27.49	54.27	74	-19.73	PK
V	2500	65.85	52.26	2.88	27.49	43.96	54	-10.04	AV
H	2483.5	77.13	52.23	2.86	27.44	55.2	74	-18.8	PK
H	2483.5	65.41	52.23	2.86	27.44	43.48	54	-10.52	AV
H	2500	76.46	52.26	2.88	27.49	54.57	74	-19.43	PK
H	2500	66.88	52.26	2.88	27.49	44.99	54	-9.01	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



3.4 CONDUCTED BAND EDGE EMISSION&CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

3.4.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in§15.205(a), must also comply with the radiated emission limits specified in15.209(a).

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

3.4.2 TEST PROCEDURE

Using the following spectrum analyzer setting:

Set the RBW = 100KHz.

Set the VBW = 300KHz.

Sweep time = auto couple.

Detector function = Peak.

Trace mode = max hold.

Allow trace to fully stabilize.

3.4.3 DEVIATION FROM STANDARD

No deviation.

3.4.4 TEST SETUP



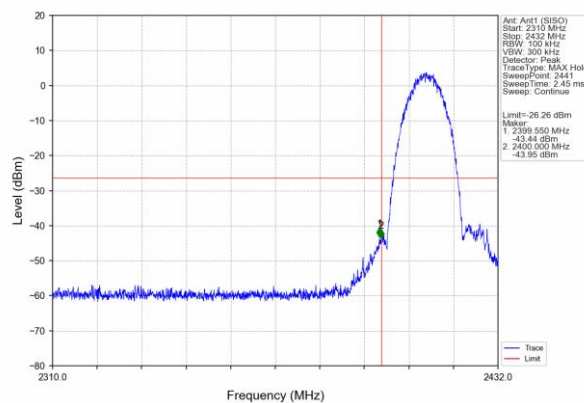
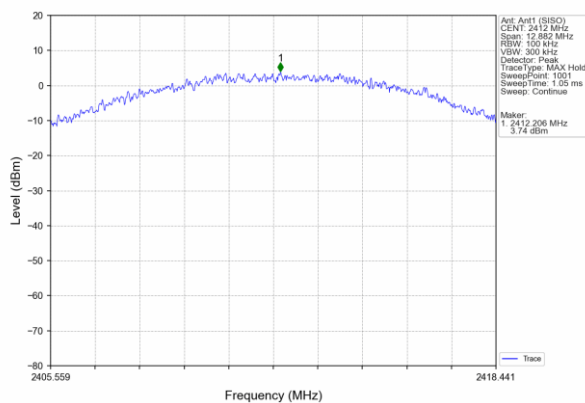
3.4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

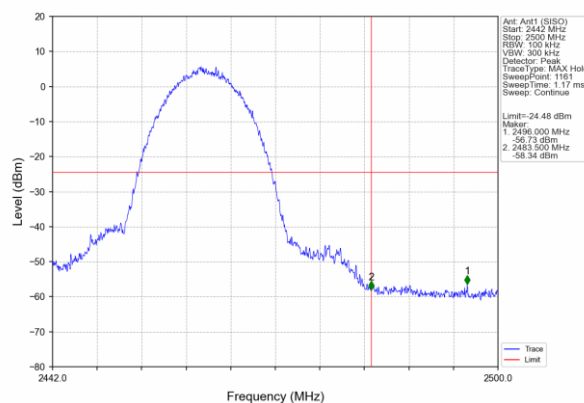
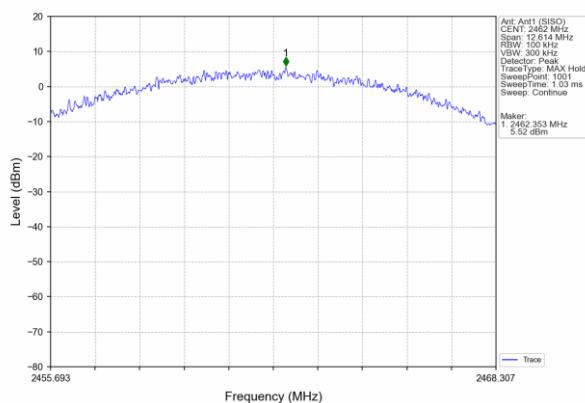
3.4.6 TEST RESULTS



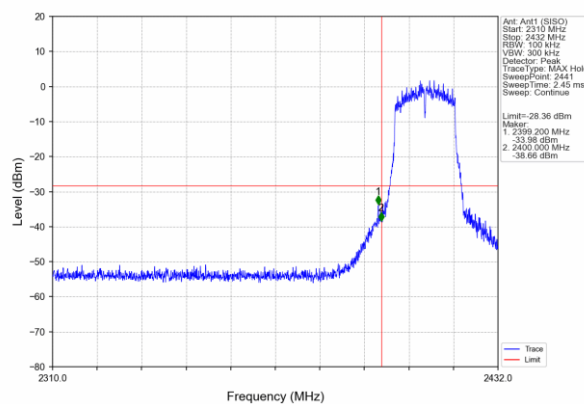
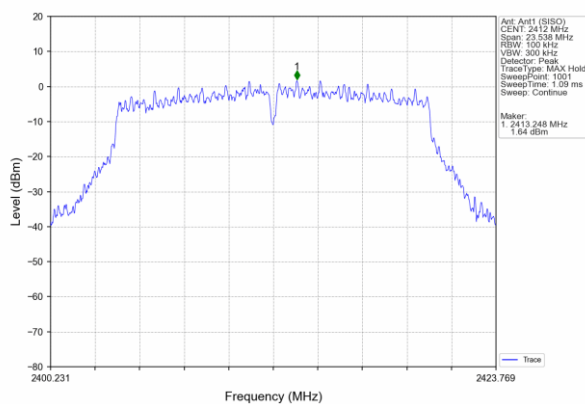
For Conducted 802.11b 2412MHz



802.11b 2462MHz

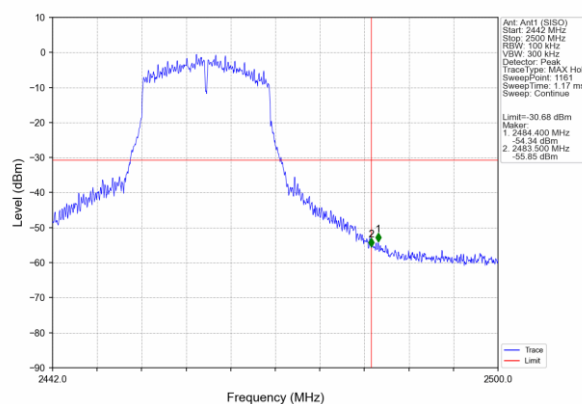
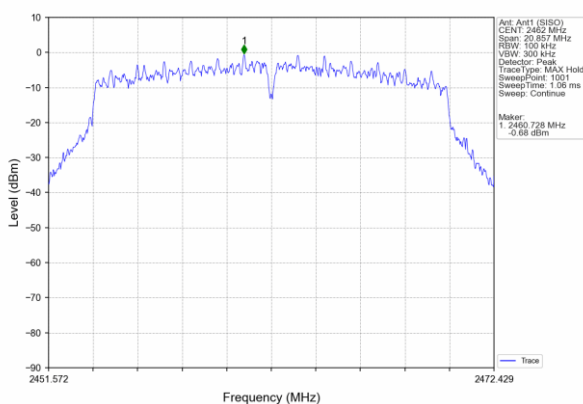


802.11g 2412MHz

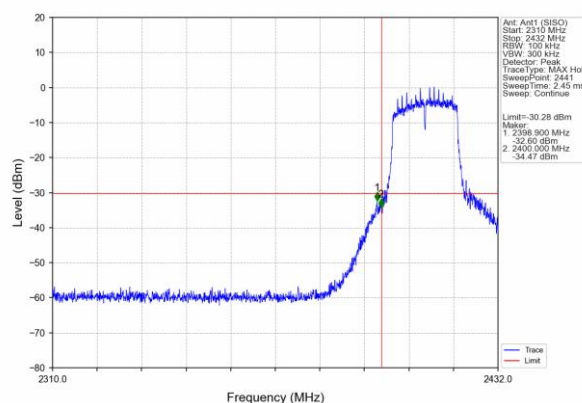
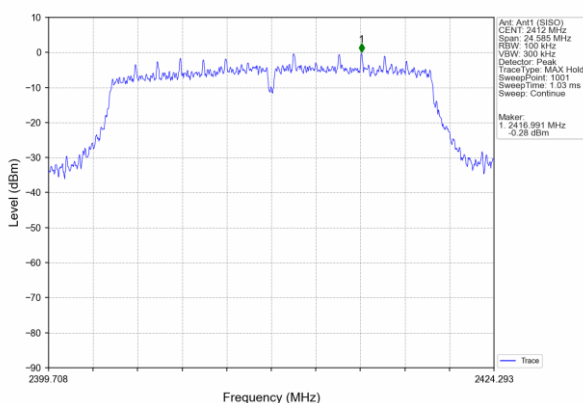




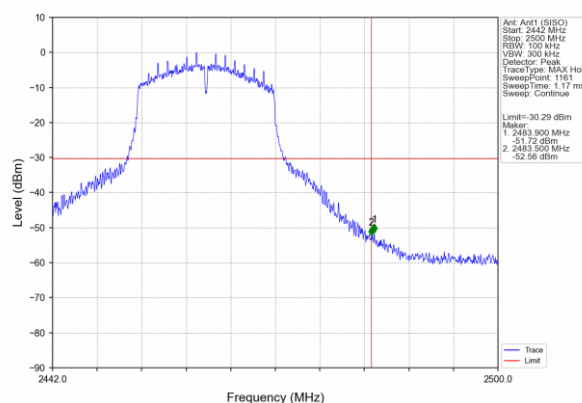
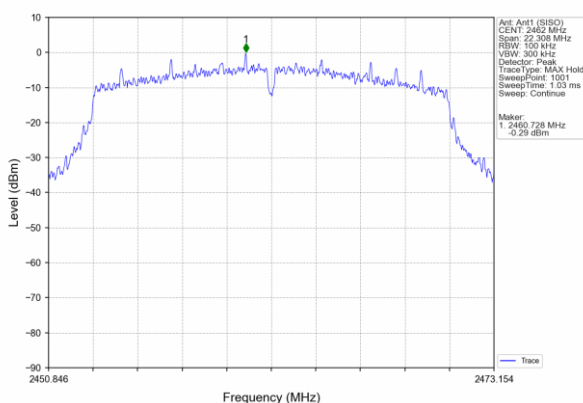
802.11g 2462MHz



802.11n 20 2412MHz

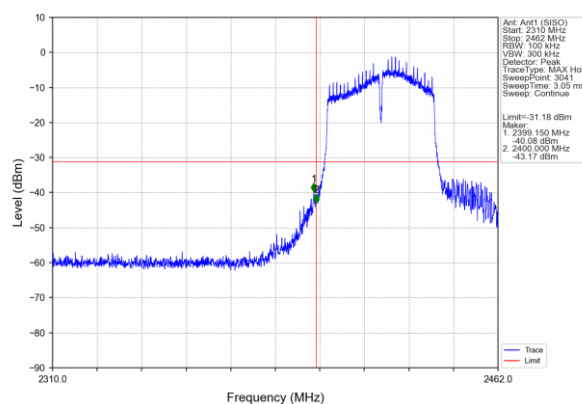
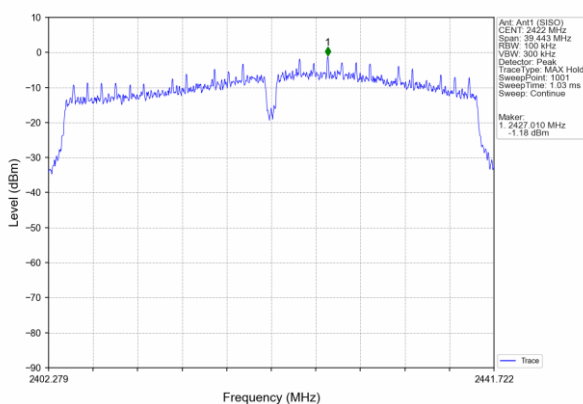


802.11n20 2462MHz

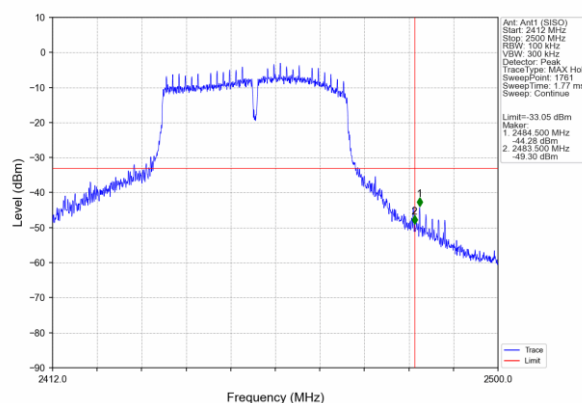
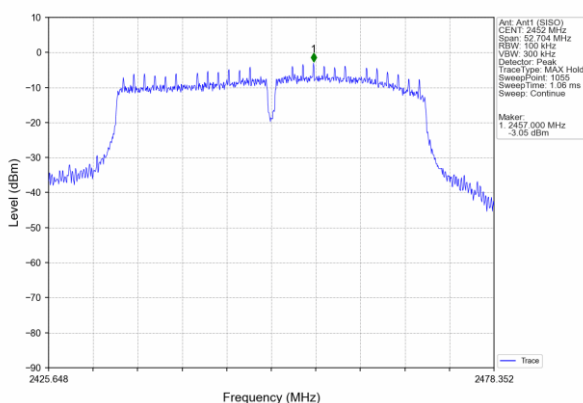




802.11n 40 2422MHz



802.11n40 2452MHz



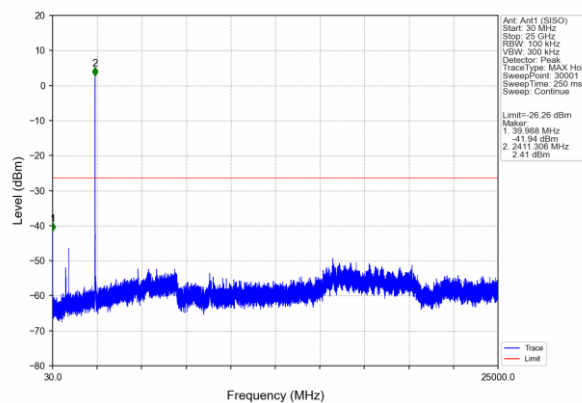
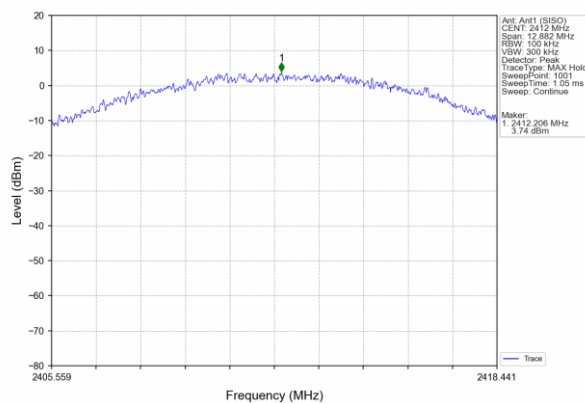


For Conducted

During the test, pre-scan the all modulation, and found the 802.11b mode which it is worse case.

Test Mode: 802.11b

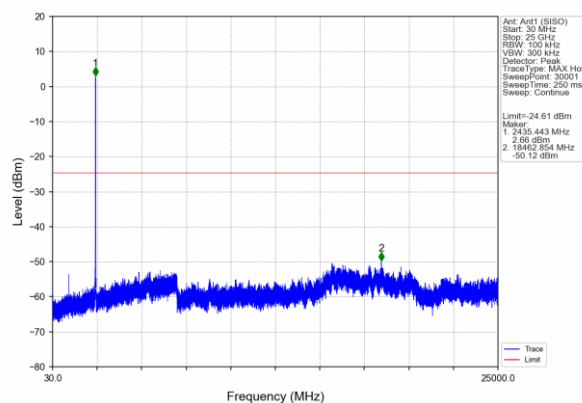
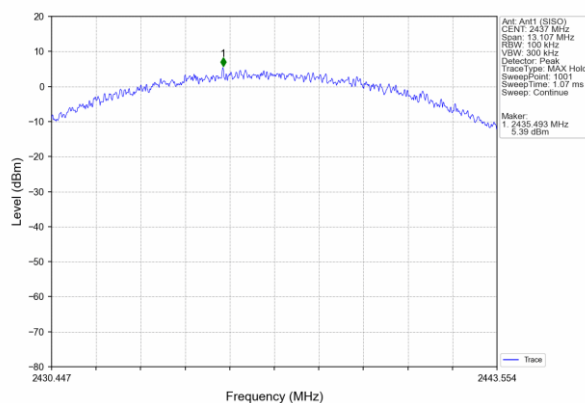
Lowest channel



0.03GHz~26.5GHz

Test channel: 802.11b

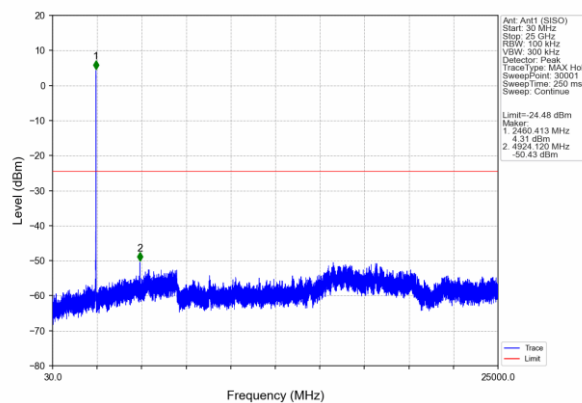
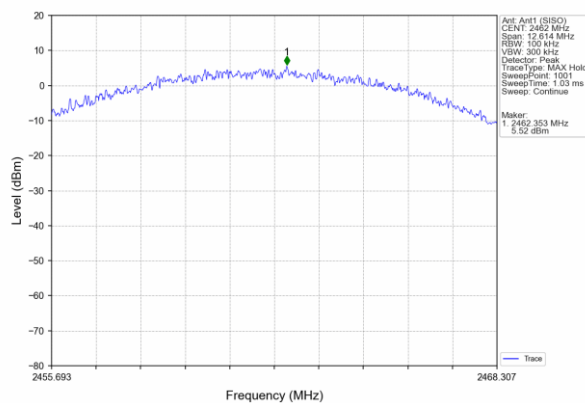
Middle channel



0.03GHz~26.5GHz

Test channel: 802.11b

Highest channel



0.03GHz~26.5GHz



4.. AVERAGE OUTPUT POWER

4.1. APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(3)	Average Output Power	1 watt or 30dBm	2400-2483.5	PASS

4.1.1. TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Set span to at least 1.5 times the OBW.
- Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
- Set VBW $\geq [3 \times \text{RBW}]$.
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- If transmit duty cycle $< 98\%$, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at the maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
- Trace average at least 100 traces in power averaging (rms) mode.
- Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

4.1.2. DEVIATION FROM STANDARD

No deviation.

4.1.3. TEST SETUP



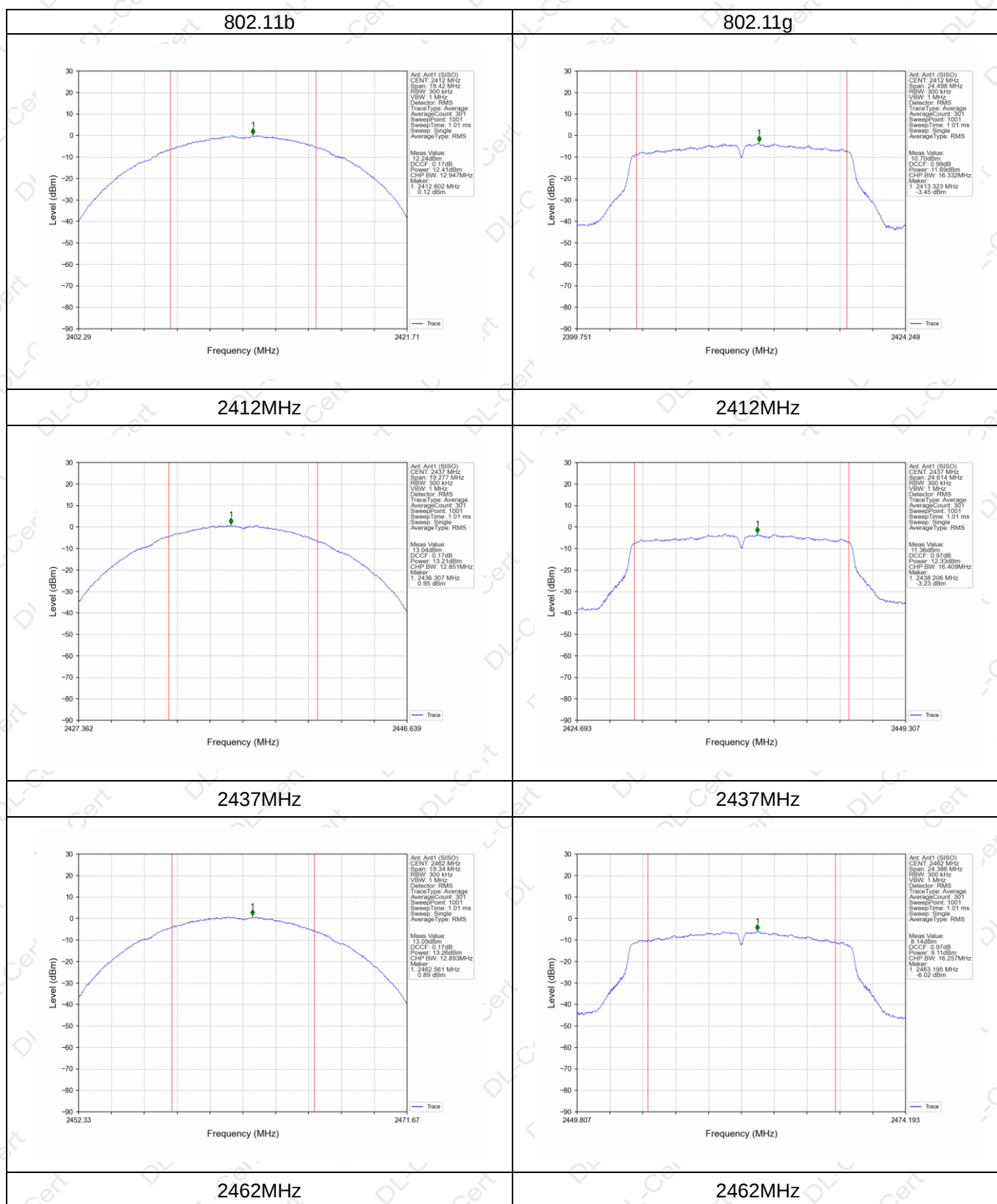
4.1.4. EUT OPERATION CONDITIONS

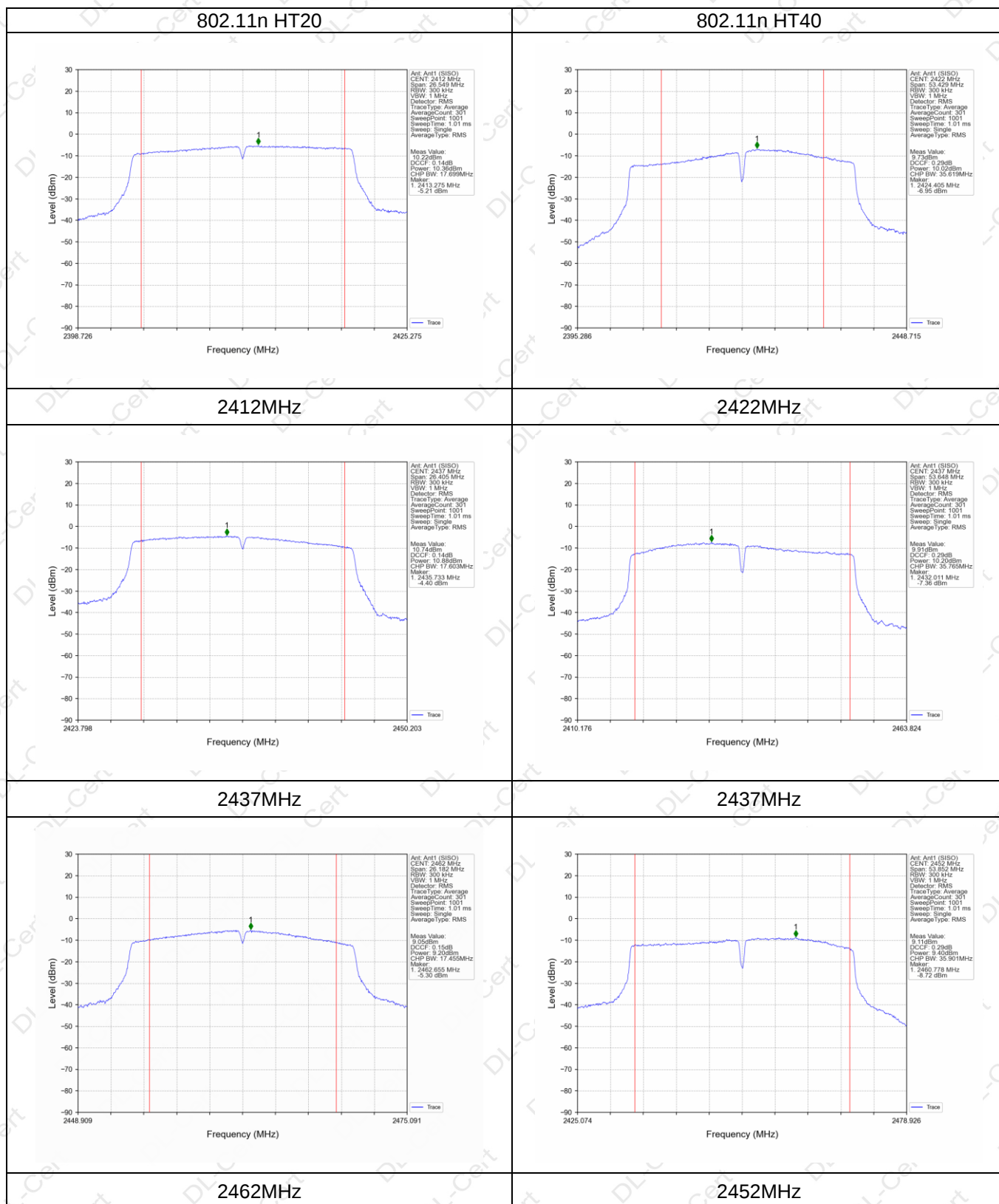
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

**4.1.5. TEST RESULTS**

Temperature:	25 °C	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz

Mode	Test Channel	Average Output Power (dBm)	LIMIT (dBm)
802.11b	Low	12.41	30.00
	Middle	13.21	30.00
	High	13.26	30.00
802.11g	Low	11.69	30.00
	Middle	12.33	30.00
	High	9.11	30.00
802.11n HT20	Low	10.36	30.00
	Middle	10.88	30.00
	High	9.20	30.00
802.11n HT40	Low	10.02	30.00
	Middle	10.20	30.00
	High	9.40	30.00







5.. POWER SPECTRAL DENSITY TEST

5.1. APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	= the frequency band of operation
RB	RBW $\geq$ 3kHz
VB	VBW $\geq$ 3RBW
Detector	power averaging (rms) or sample detector (when rms not available).
Trace	rms/average
Sweep Time	Auto

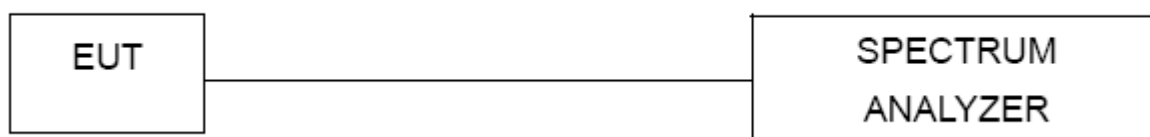
5.1.1. TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

5.1.2. DEVIATION FROM STANDARD

No deviation.

5.1.3. TEST SETUP

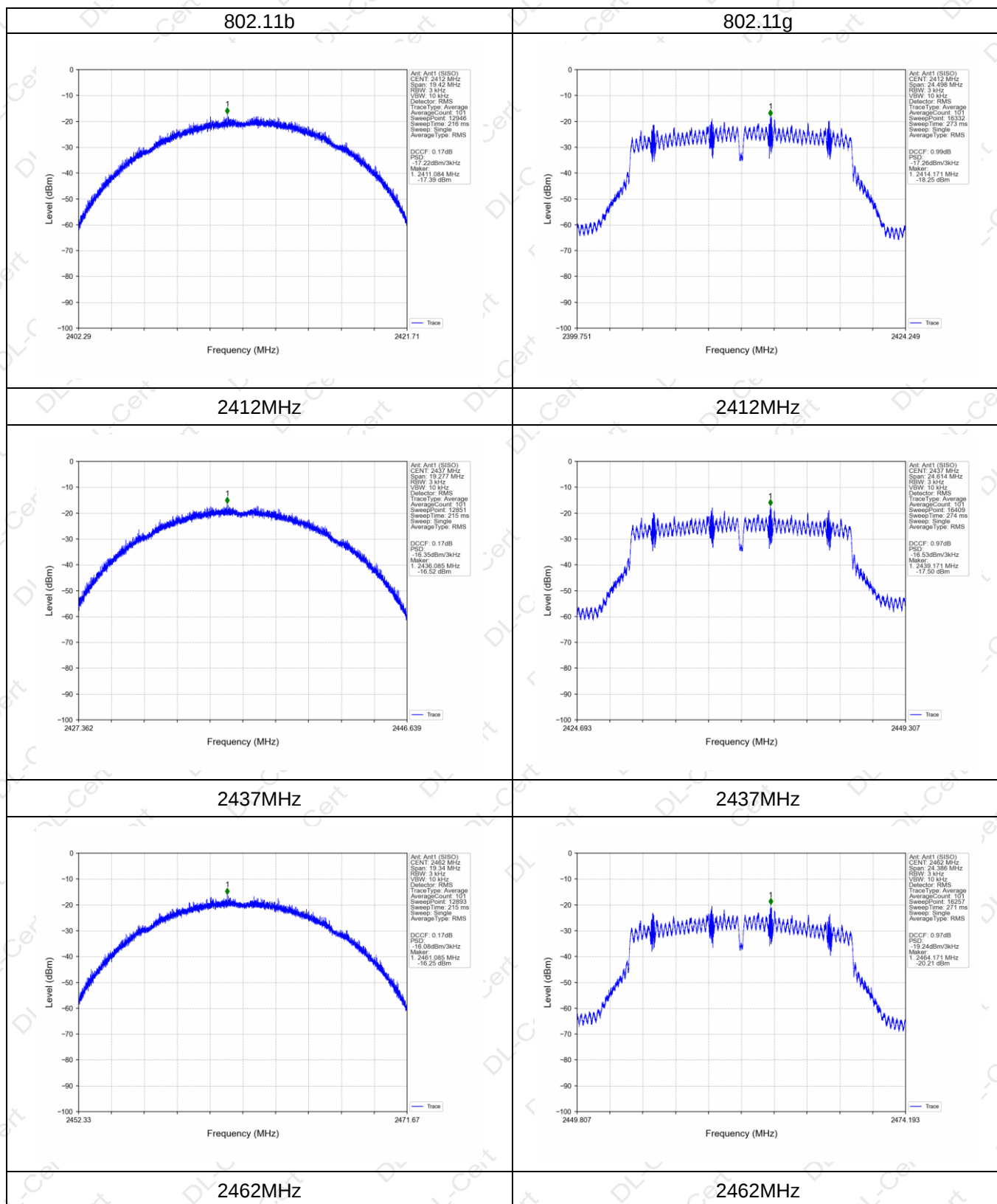


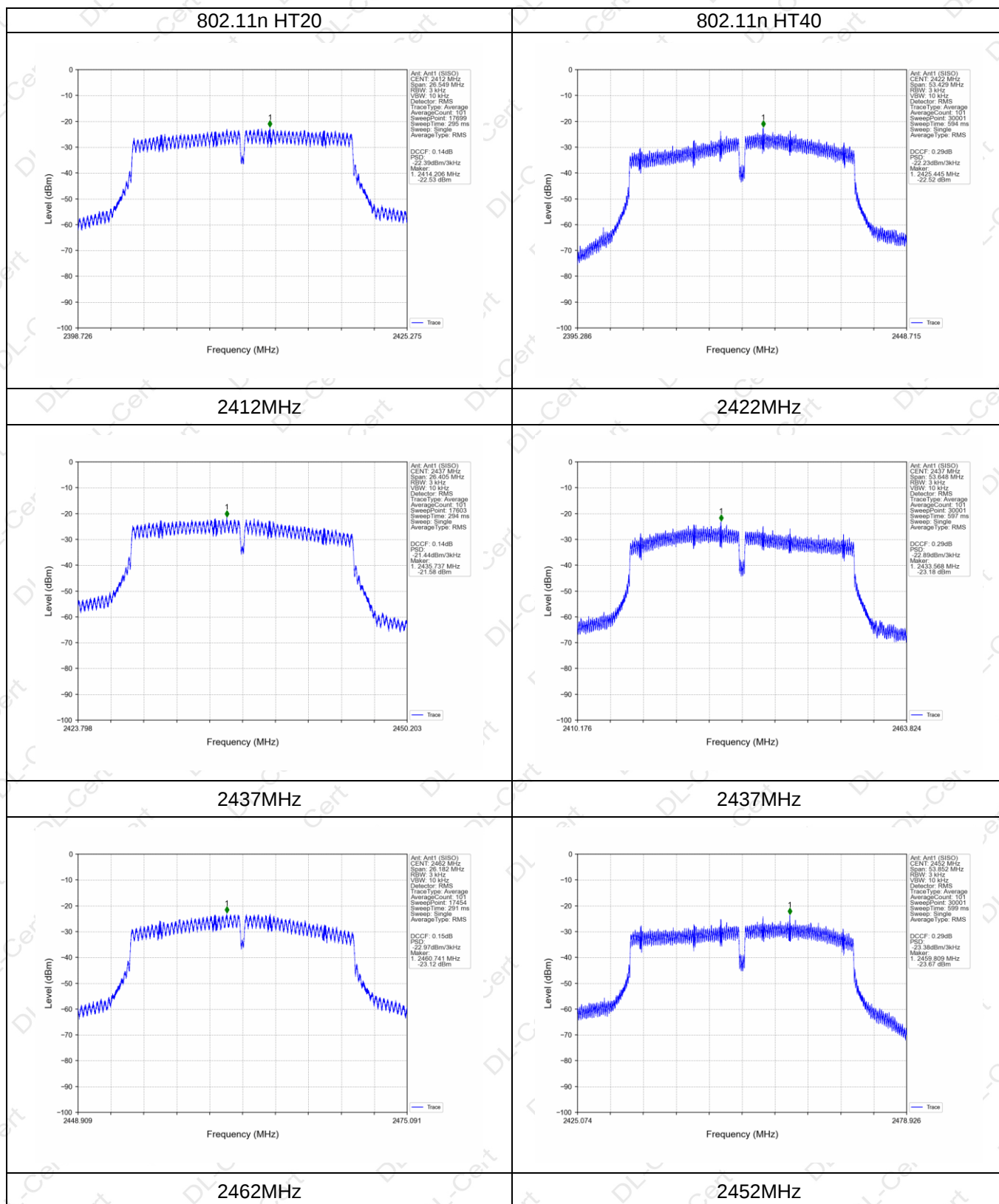
5.1.4. EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

**5.1.5. TEST RESULTS**

Mode	Test Channel	Test Result (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11b	Low	-17.22	8	PASS
	Middle	-16.35	8	PASS
	High	-16.08	8	PASS
802.11g	Low	-17.26	8	PASS
	Middle	-16.53	8	PASS
	High	-19.24	8	PASS
802.11n20	Low	-22.39	8	PASS
	Middle	-21.44	8	PASS
	High	-22.97	8	PASS
802.11n40	Low	-22.23	8	PASS
	Middle	-22.89	8	PASS
	High	-23.38	8	PASS





**6.. 6DB BANDWIDTH TEST****6.1. APPLIED PROCEDURES / LIMIT**

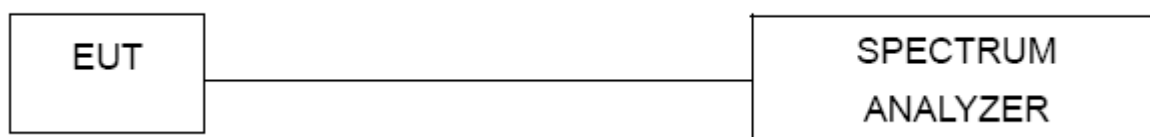
FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range(MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

6.1.1. TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.1.2. DEVIATION FROM STANDARD

No deviation.

6.1.3. TEST SETUP**6.1.4. EUT OPERATION CONDITIONS**

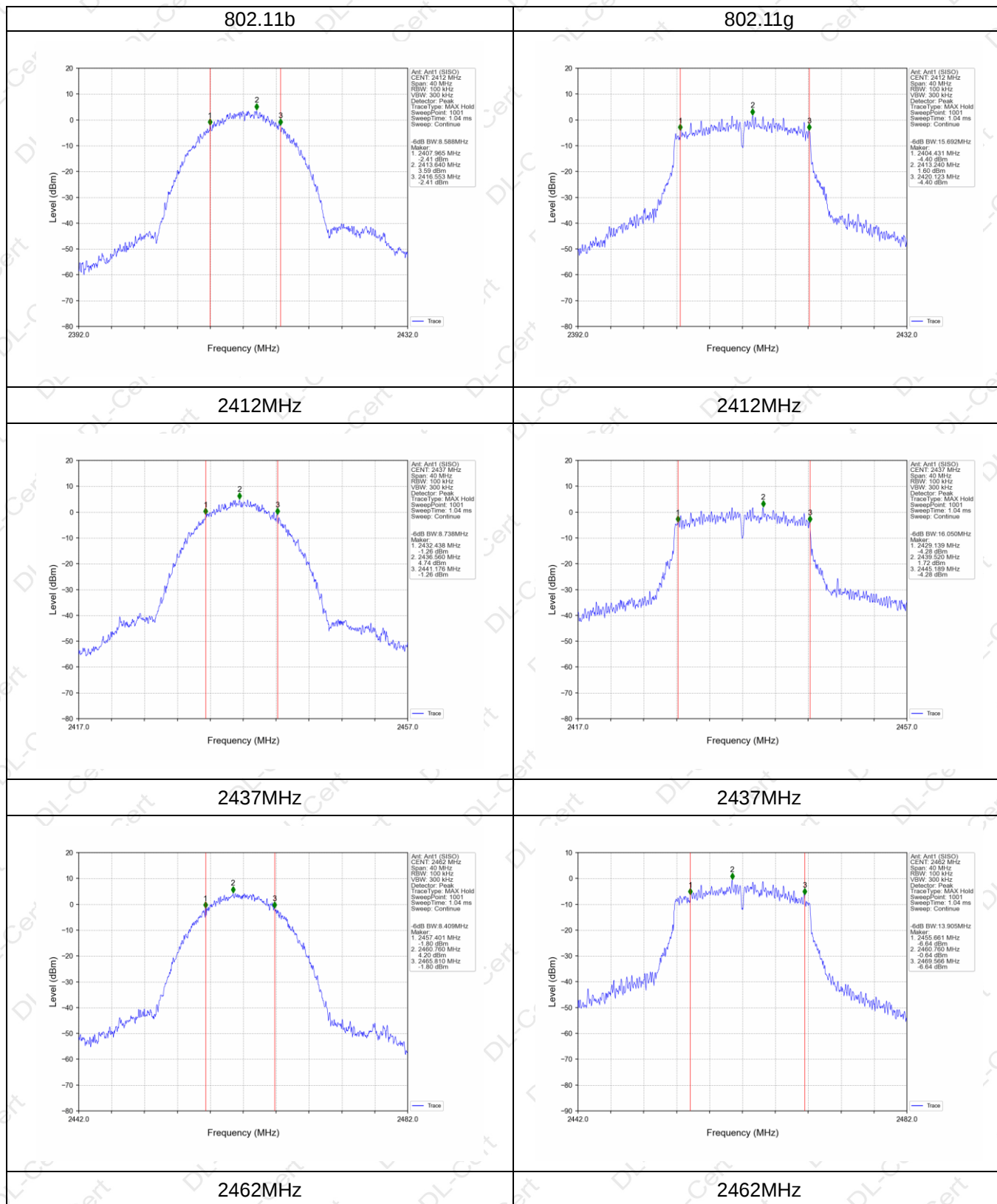
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

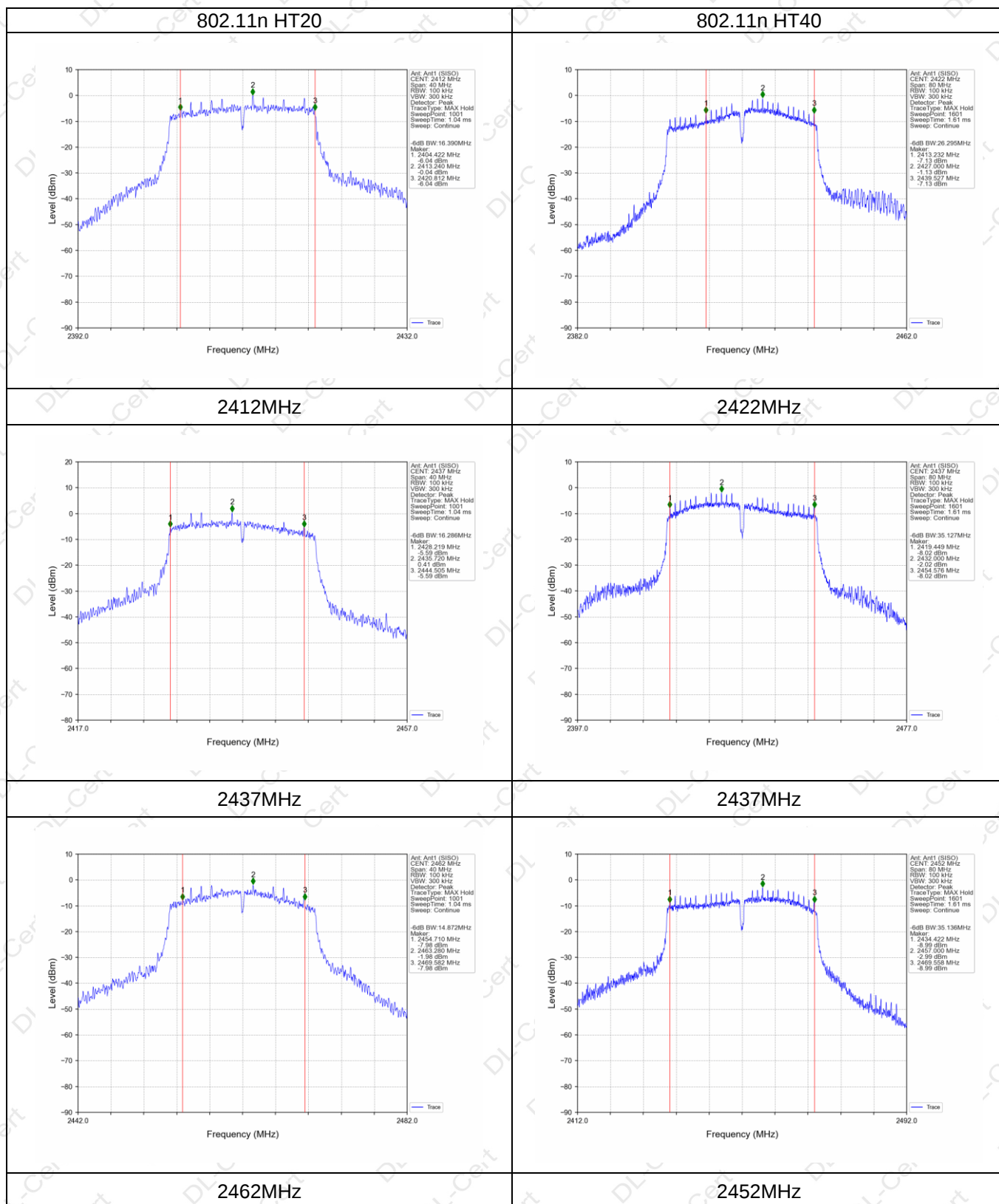
**6.1.5. TEST RESULTS**

	Test Channel	6dB Bandwidth (MHz)	99%Bandwidth (MHz)	Limit (MHz)	Result
802.11b	Low	8.588	12.947	0.5	Pass
	Middle	8.738	12.851	0.5	Pass
	High	8.409	12.893	0.5	Pass
802.11g	Low	15.692	16.332	0.5	Pass
	Middle	16.050	16.409	0.5	Pass
	High	13.905	16.257	0.5	Pass
802.11n HT20	Low	16.390	17.699	0.5	Pass
	Middle	16.286	17.603	0.5	Pass
	High	14.872	17.455	0.5	Pass
802.11n HT40	Low	26.295	35.619	0.5	Pass
	Middle	35.127	35.765	0.5	Pass
	High	35.136	35.901	0.5	Pass



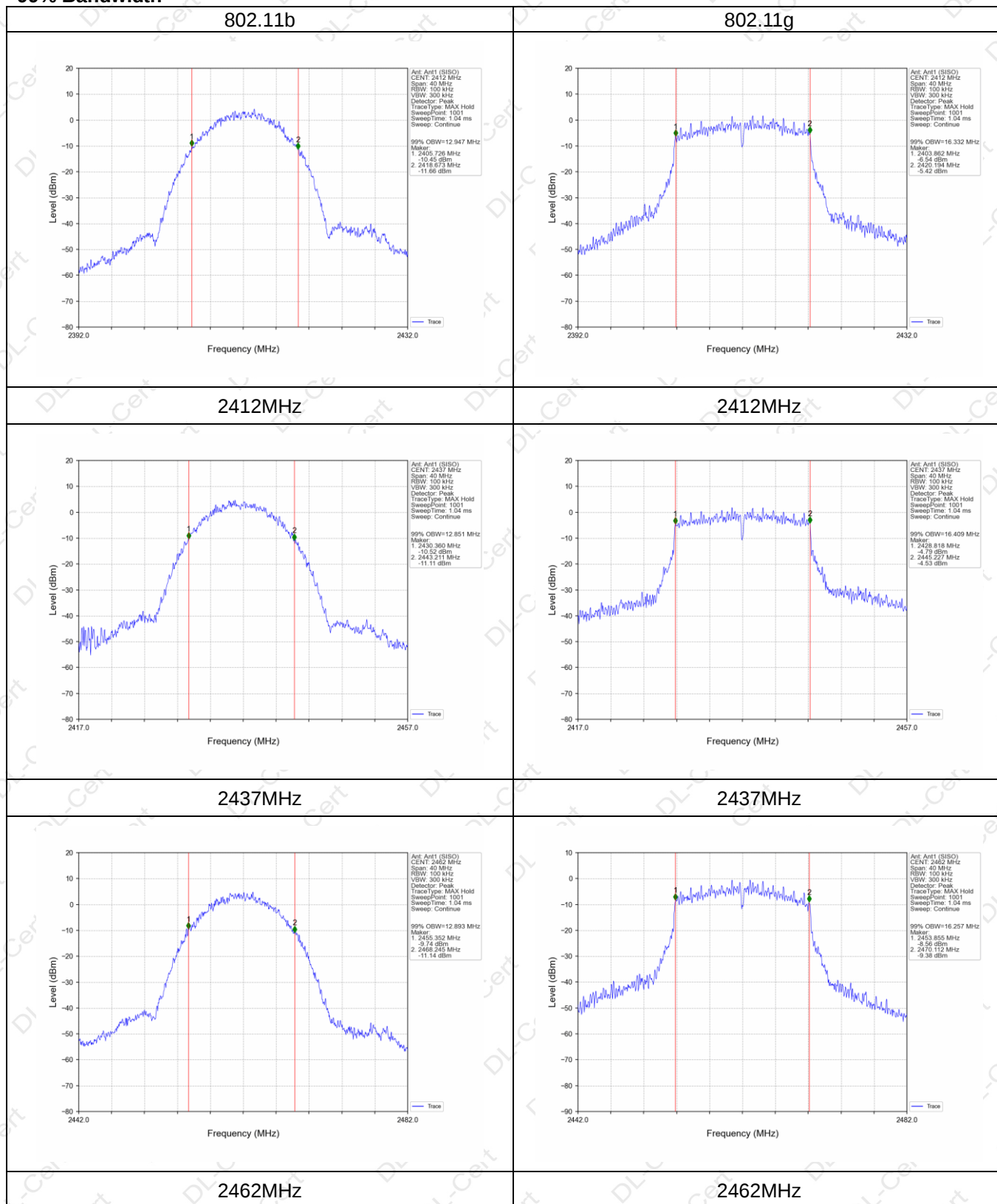
6dB Bandwidth

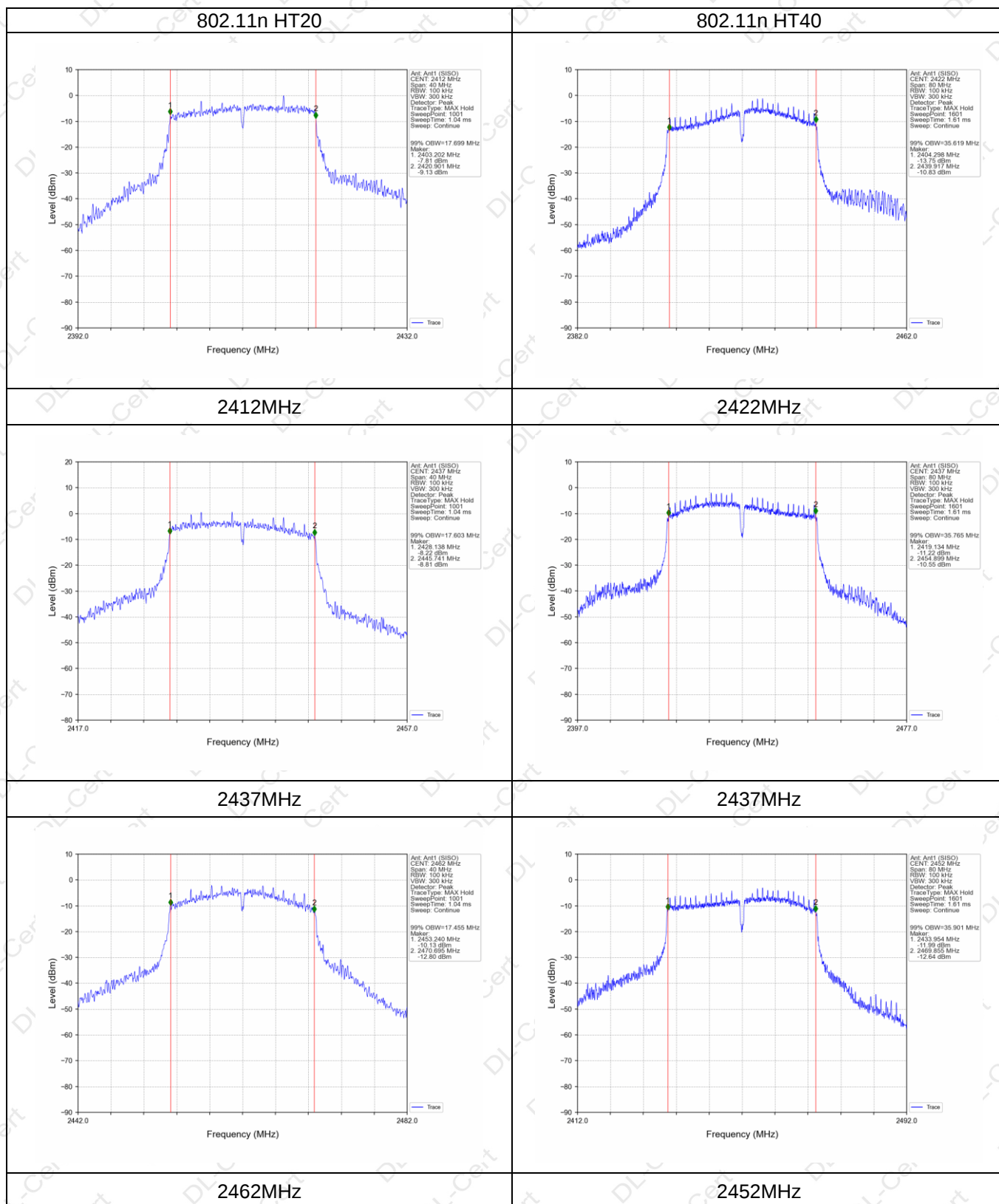






99% Bandwidth







7.. ANTENNA REQUIREMENT

7.1. STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

7.2. EUT ANTENNA

The EUT antenna is Internal Antenna, It comply with the standard requirement.

8.. TEST SEUUP PHOTO

Reference to the appendix I for details.

9.. EUT PHOTO

Reference to the appendix II for details.

***** END OF REPORT *****