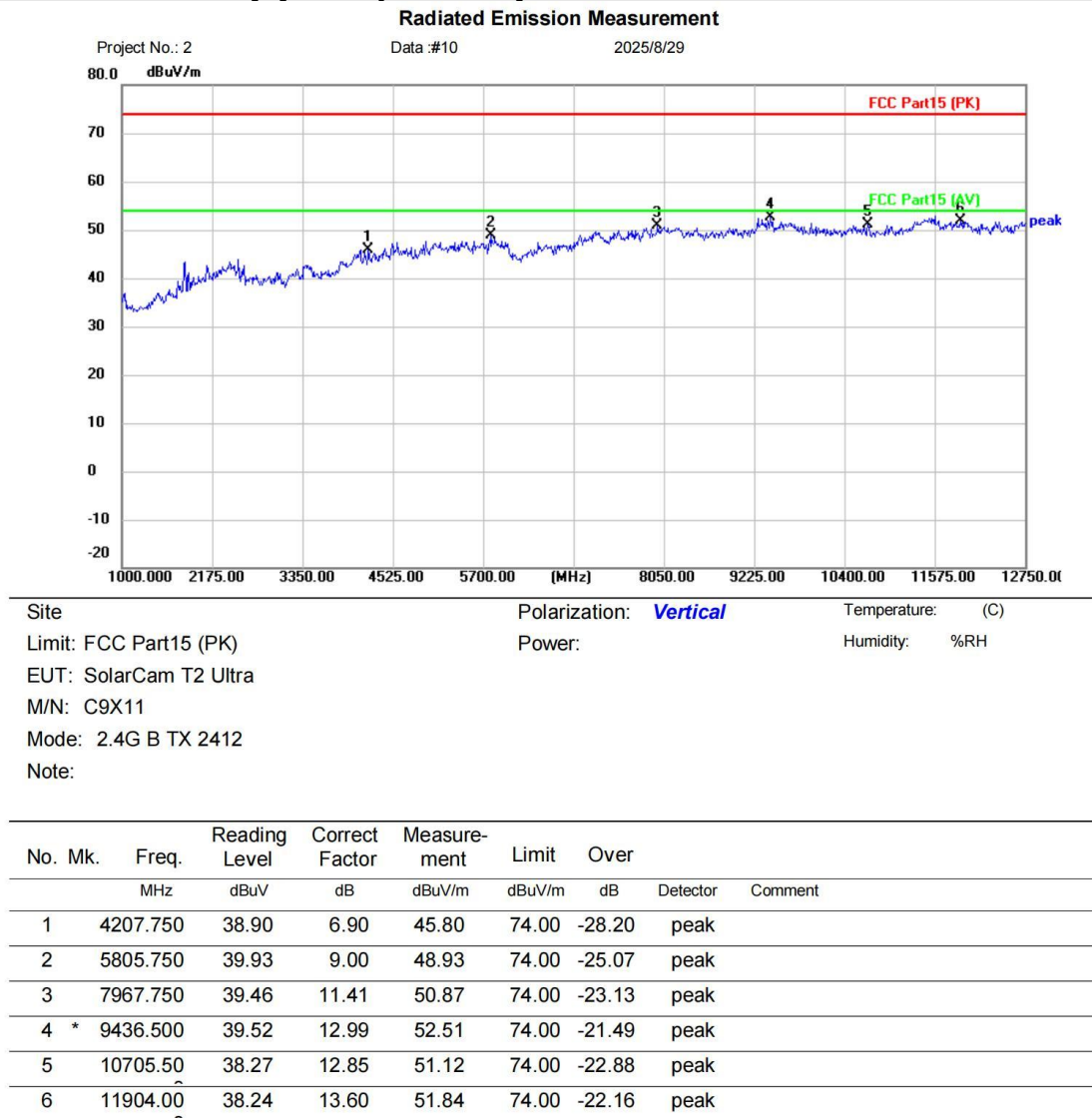
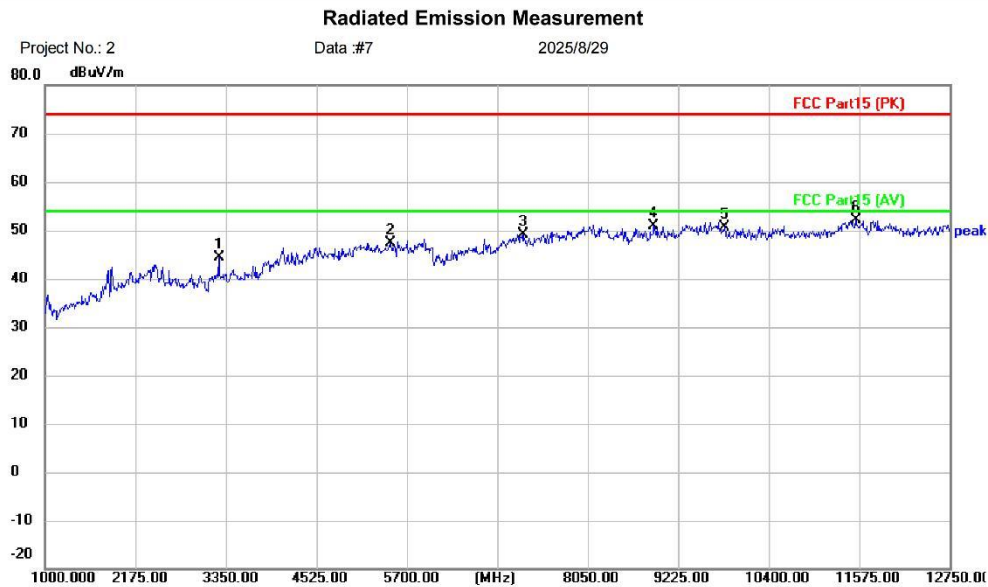


[Test mode: TX low channel]; [Polarity: Vertical]



Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Horizontal]



Site: Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: SolarCam T2 Ultra

M/N: C9X11

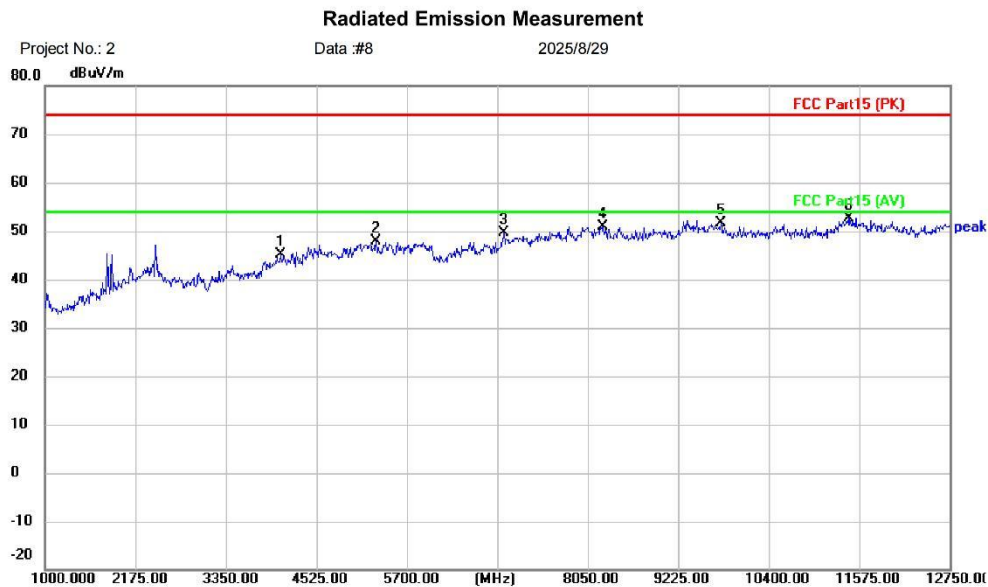
Mode: 2.4G B TX 2437

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		3256.000	45.48	-1.20	44.28	74.00	-29.72	peak	
2		5488.500	39.04	8.42	47.46	74.00	-26.54	peak	
3		7215.750	38.66	10.42	49.08	74.00	-24.92	peak	
4		8907.750	38.25	12.57	50.82	74.00	-23.18	peak	
5		9824.250	37.18	13.52	50.70	74.00	-23.30	peak	
6	*	11528.00	37.22	14.83	52.05	74.00	-21.95	peak	

Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Vertical]



Site: Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: SolarCam T2 Ultra

M/N: C9X11

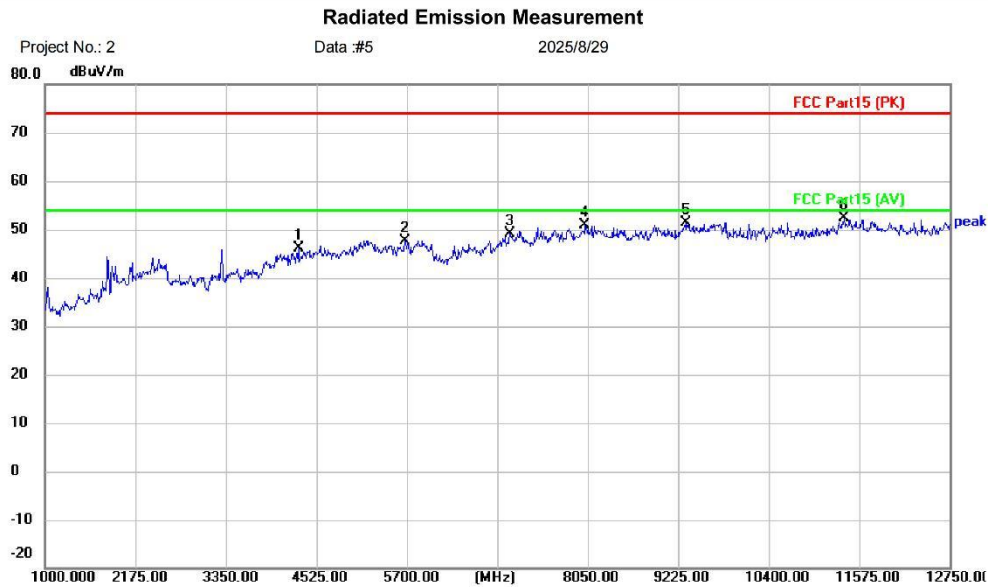
Mode: 2.4G B TX 2437

Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4055.000	41.32	3.91	45.23	74.00	-28.77	peak	
2	5300.500	40.31	7.65	47.96	74.00	-26.04	peak	
3	6957.250	39.87	9.74	49.61	74.00	-24.39	peak	
4	8249.750	39.69	11.20	50.89	74.00	-23.11	peak	
5	9777.250	37.82	13.71	51.53	74.00	-22.47	peak	
6 *	11445.75	38.20	14.55	52.75	74.00	-21.25	peak	

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Horizontal]

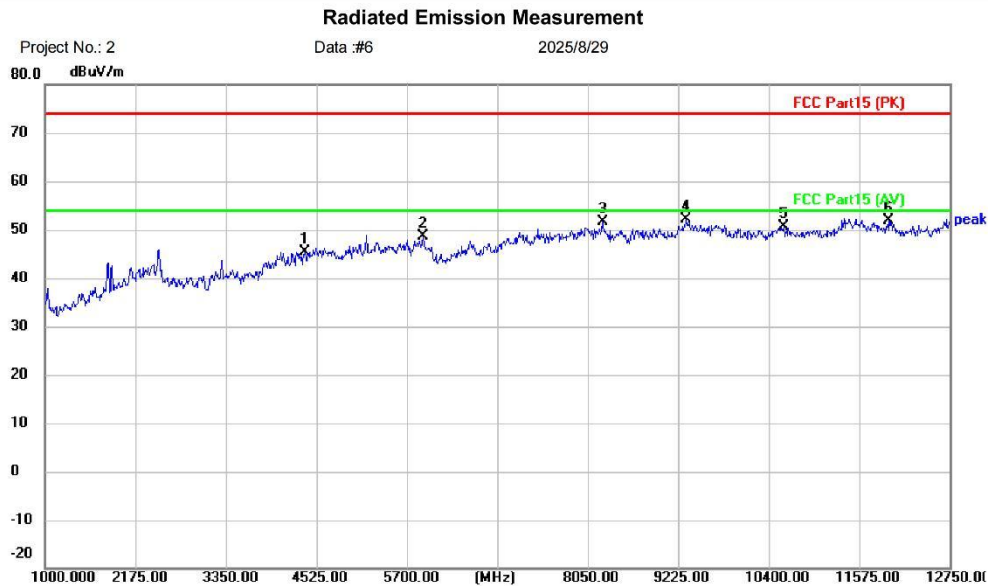


Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: SolarCam T2 Ultra		
M/N: C9X11		
Mode: 2.4G B TX 2462		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4290.000	40.79	5.40	46.19	74.00	-27.81	peak	
2		5676.500	39.35	8.37	47.72	74.00	-26.28	peak	
3		7039.500	39.03	10.08	49.11	74.00	-24.89	peak	
4		8014.750	39.32	11.63	50.95	74.00	-23.05	peak	
5		9330.750	38.14	13.29	51.43	74.00	-22.57	peak	
6	*	11375.25	38.51	13.99	52.50	74.00	-21.50	peak	

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Vertical]



Site: Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: SolarCam T2 Ultra

M/N: C9X11

Mode: 2.4G B TX 2462

Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4372.250	40.21	5.21	45.42	74.00	-28.58	peak	
2	5911.500	39.66	9.08	48.74	74.00	-25.26	peak	
3	8238.000	40.32	11.26	51.58	74.00	-22.42	peak	
4 *	9330.750	38.85	13.29	52.14	74.00	-21.86	peak	
5	10588.000	37.07	13.61	50.68	74.00	-23.32	peak	
6	11951.000	38.05	13.93	51.98	74.00	-22.02	peak	

Test Result: Pass

6.9 Radiated emissions which fall in the restricted bands

Test Standard	47 CFR Part 15, Subpart C 15.247(d)
Test Method	ANSI C63.10-2020+Cor.1-2023 Clause 6.10.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

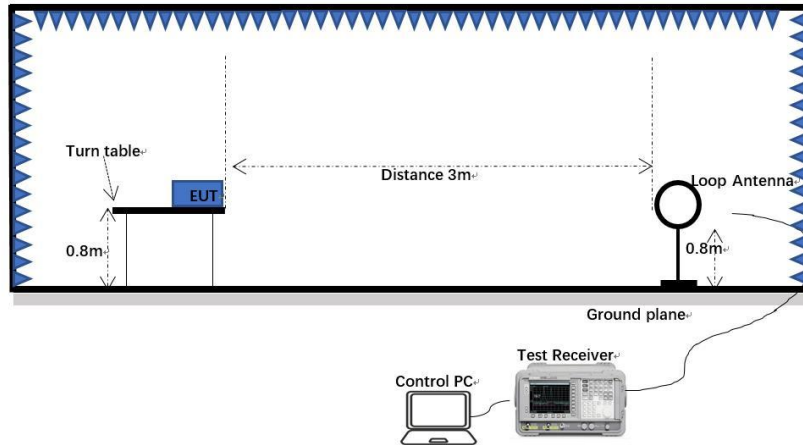
6.9.1 Limit

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
Above 960	500	3

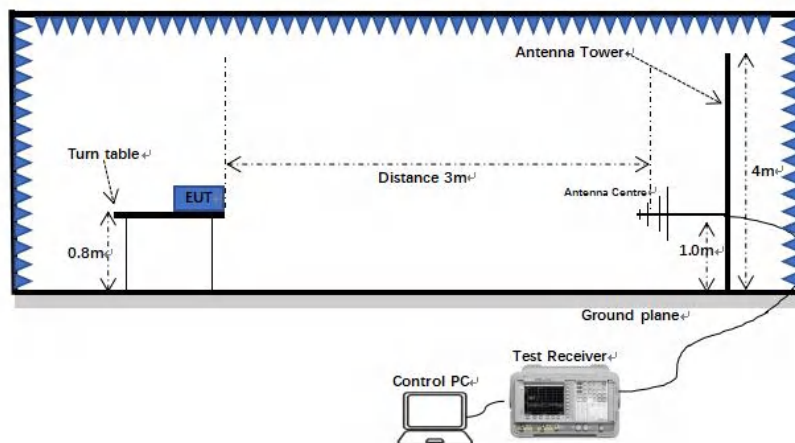
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

6.9.2 Test setup

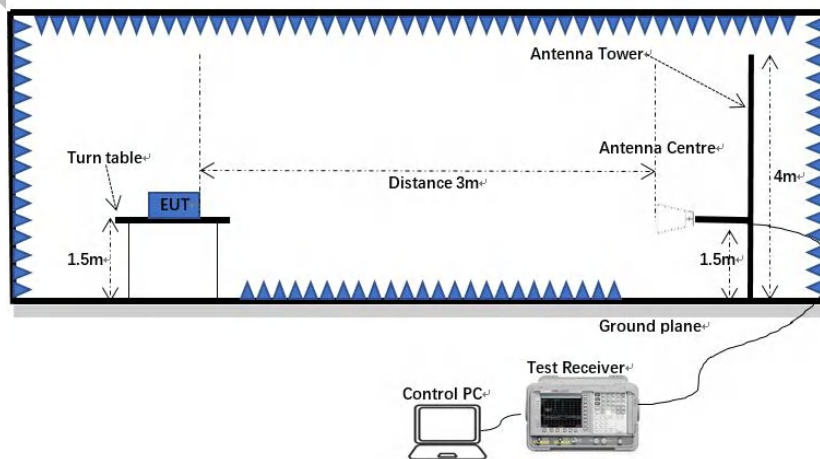
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



6.9.3 Procedure

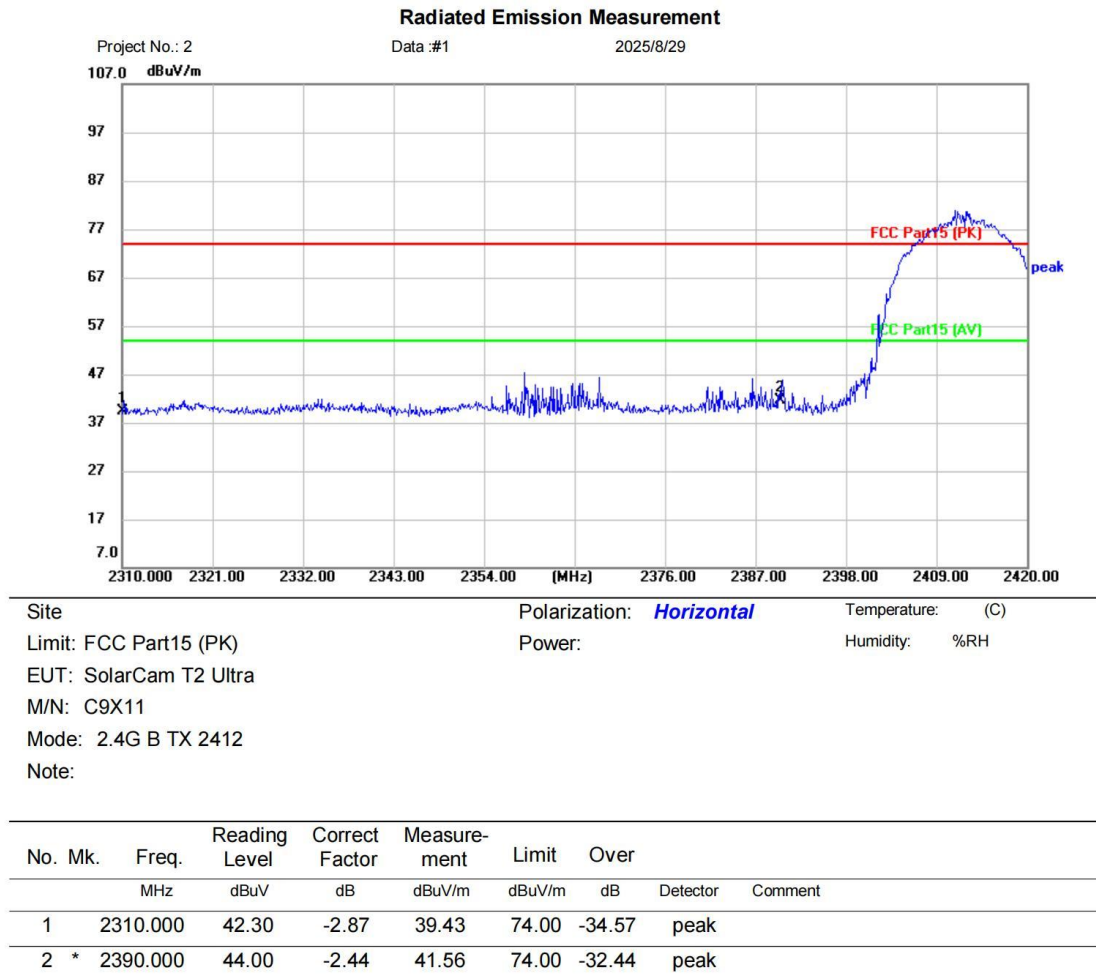
- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d) 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.
- e) 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) 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.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

Note 1: $Level (dBuV) = Reading (dBuV) + Factor (dB/m)$

Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

6.9.4 Test data

[Test mode: 802.11B TX low channel]; [Polarity: Horizontal]



*:Maximum data x:Over limit !:over margin

(Reference Only)

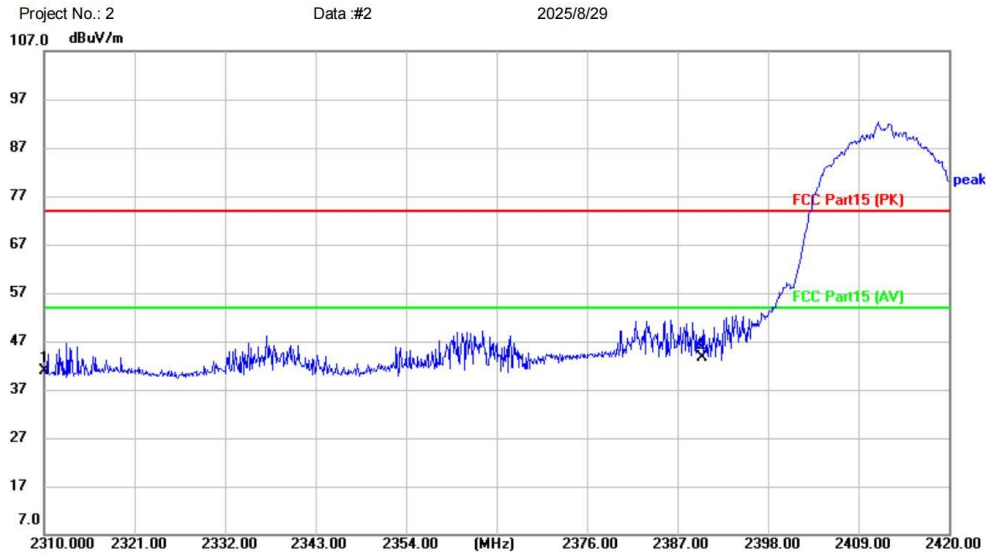
Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11B TX low channel]; [Polarity: Vertical]

Radiated Emission Measurement



Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: SolarCam T2 Ultra

M/N: C9X11

Mode: 2.4G B TX 2412

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	43.69	-2.87	40.82	74.00	-33.18	peak	
2	*	2390.000	46.14	-2.44	43.70	74.00	-30.30	peak	

*:Maximum data x:Over limit !:over margin

⟨Reference Only

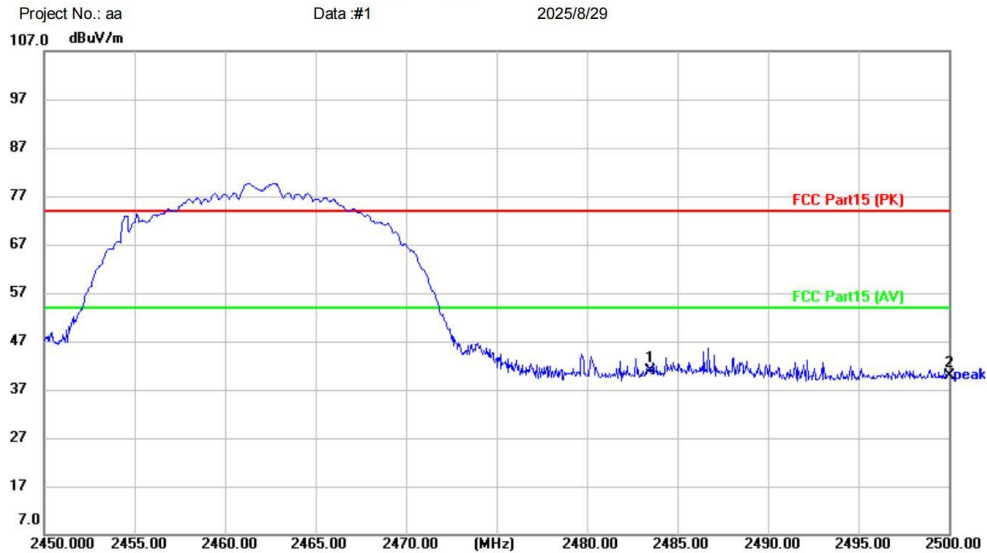
Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11B TX High channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site: Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: SolarCam T2 Ultra

M/N: C9X11

Mode: 2.4G B TX 2462

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2483.500	43.69	-2.91	40.78	74.00	-33.22	peak	
2		2500.000	42.91	-3.00	39.91	74.00	-34.09	peak	

*:Maximum data x:Over limit !:over margin

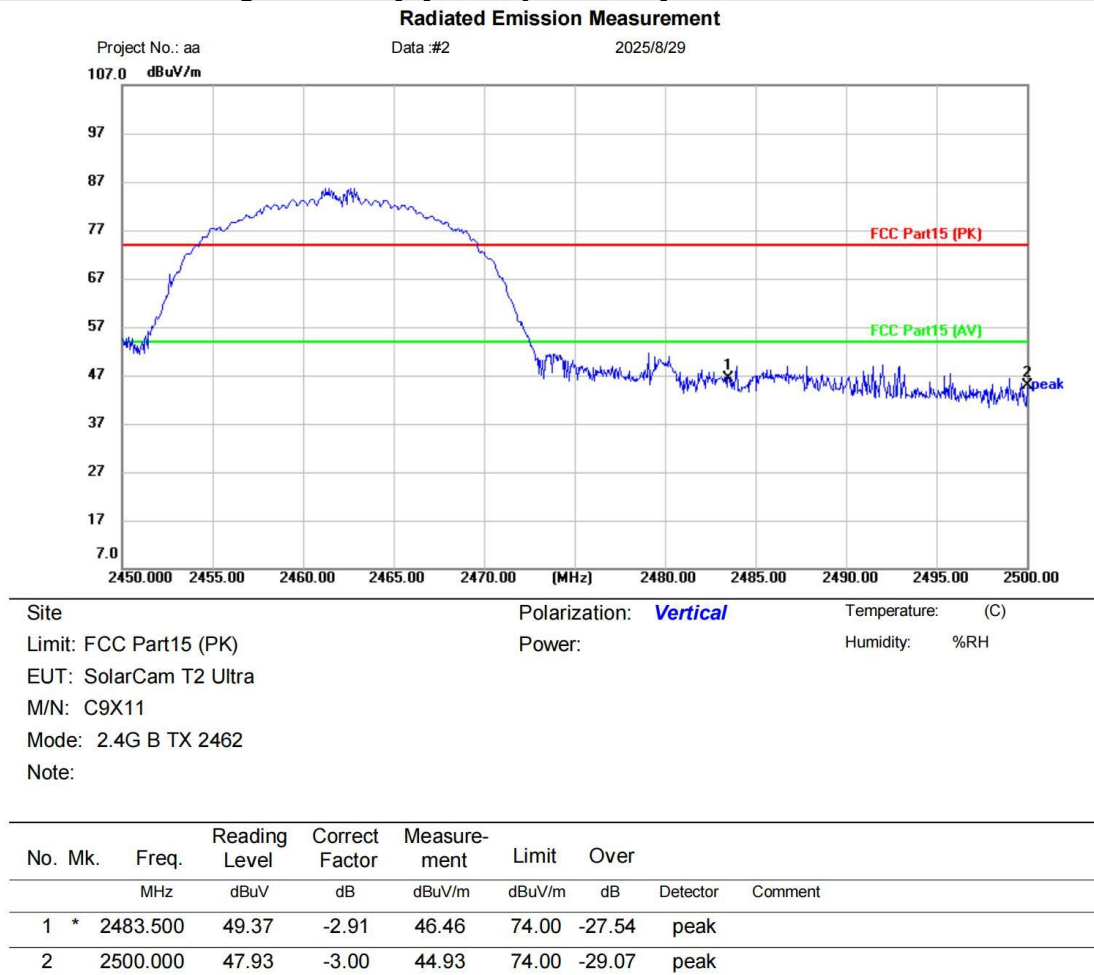
⟨Reference Only

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11B TX High channel]; [Polarity: Vertical]



*:Maximum data x:Over limit !:over margin

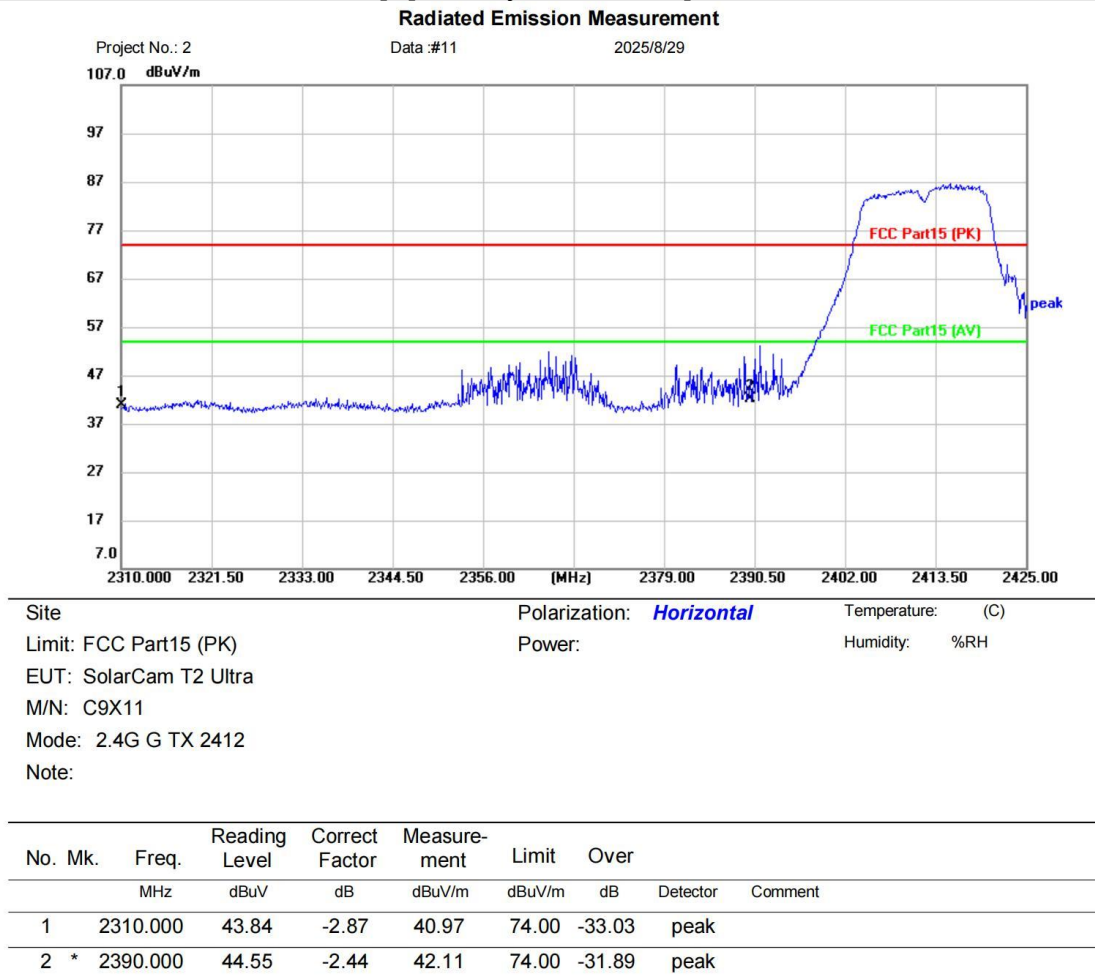
⟨Reference Only

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11G TX low channel]; [Polarity: Horizontal]

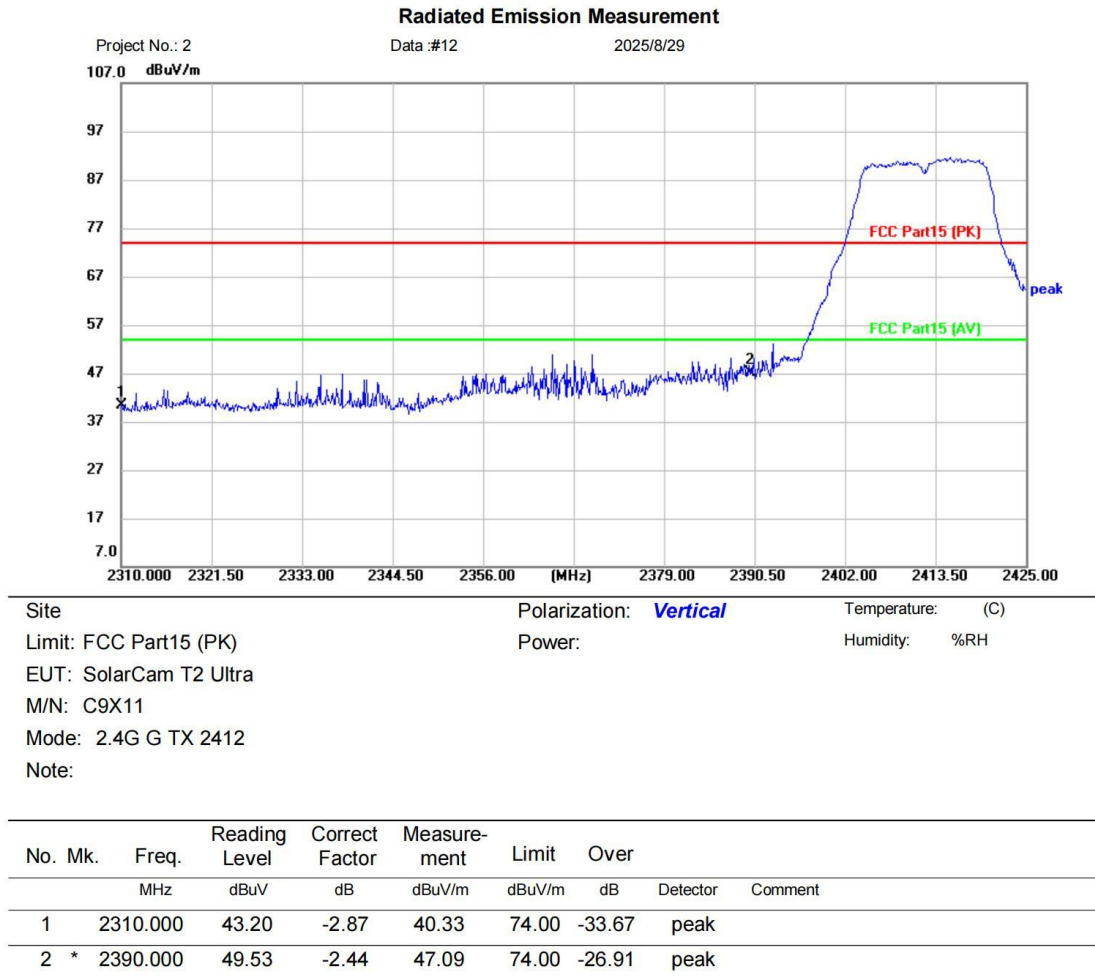


*:Maximum data x:Over limit !:over margin <Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11G TX low channel]; [Polarity: Vertical]



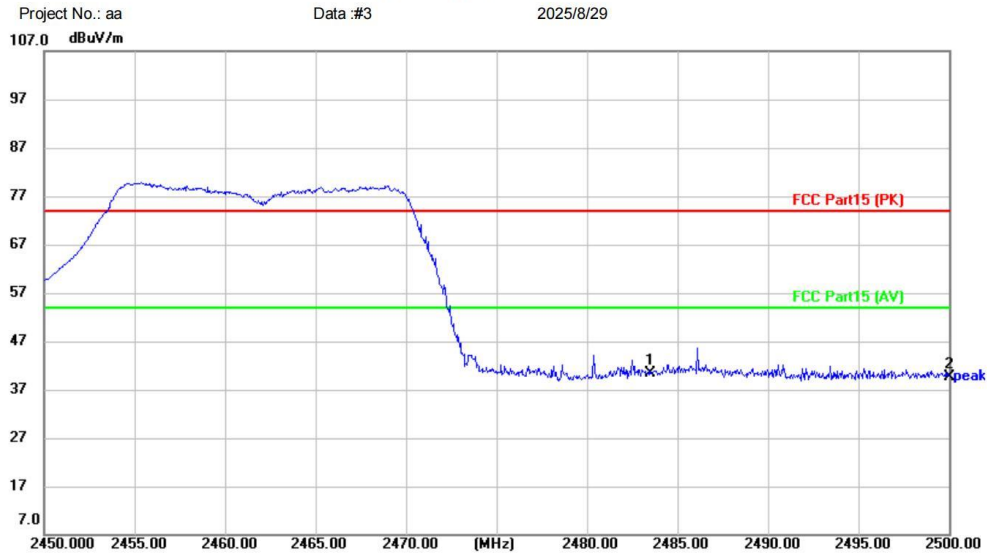
*:Maximum data x:Over limit !:over margin <Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11G TX High channel]; [Polarity: Horizontal]

Radiated Emission Measurement



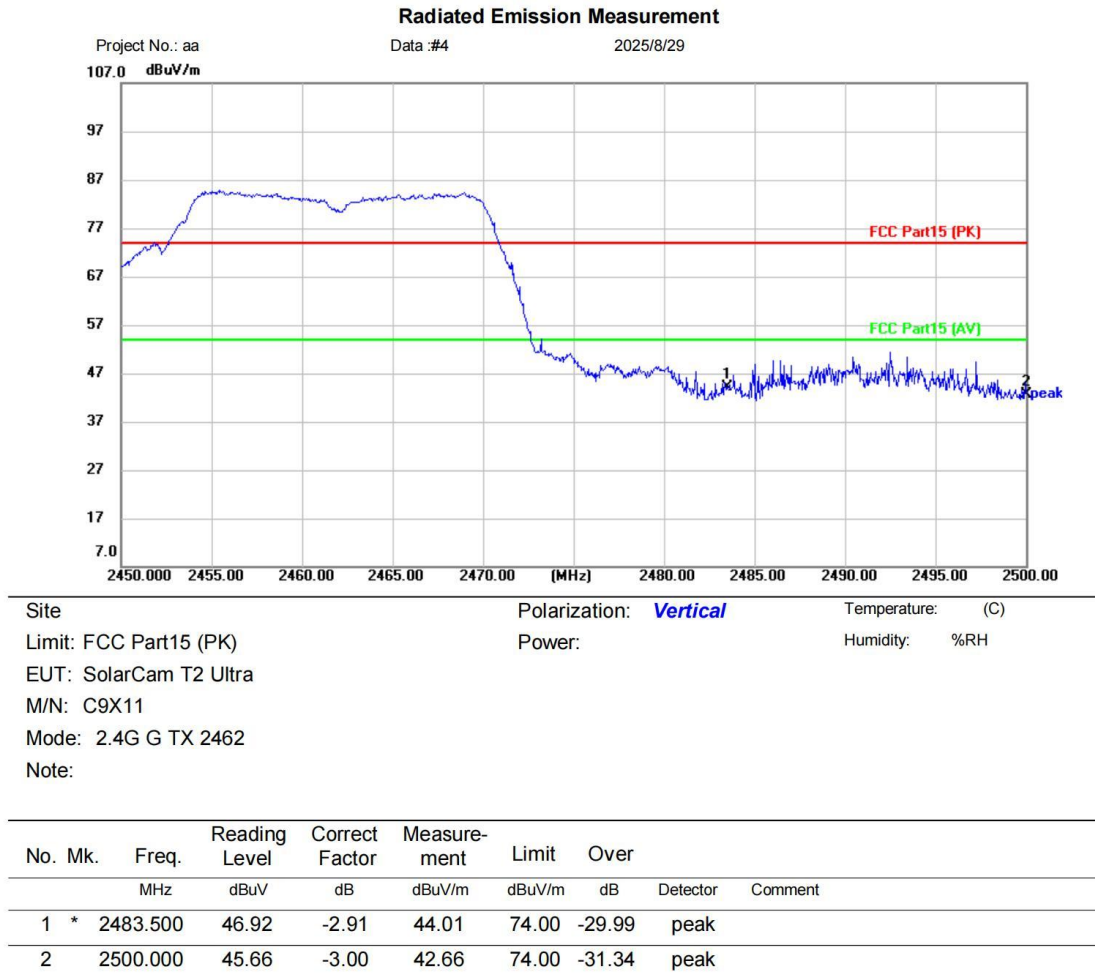
Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: SolarCam T2 Ultra		
M/N: C9X11		
Mode: 2.4G G TX 2462		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	43.18	-2.91	40.27	74.00	-33.73	peak	
2		2500.000	42.73	-3.00	39.73	74.00	-34.27	peak	

*:Maximum data x:Over limit !:over margin		〈Reference Only
Receiver:	ESR_1	Spectrum Analyzer: FSP40
F7 24000 10 100 0001		

Test Result: Pass

[Test mode: 802.11G TX High channel]; [Polarity: Vertical]



*:Maximum data x:Over limit !:over margin

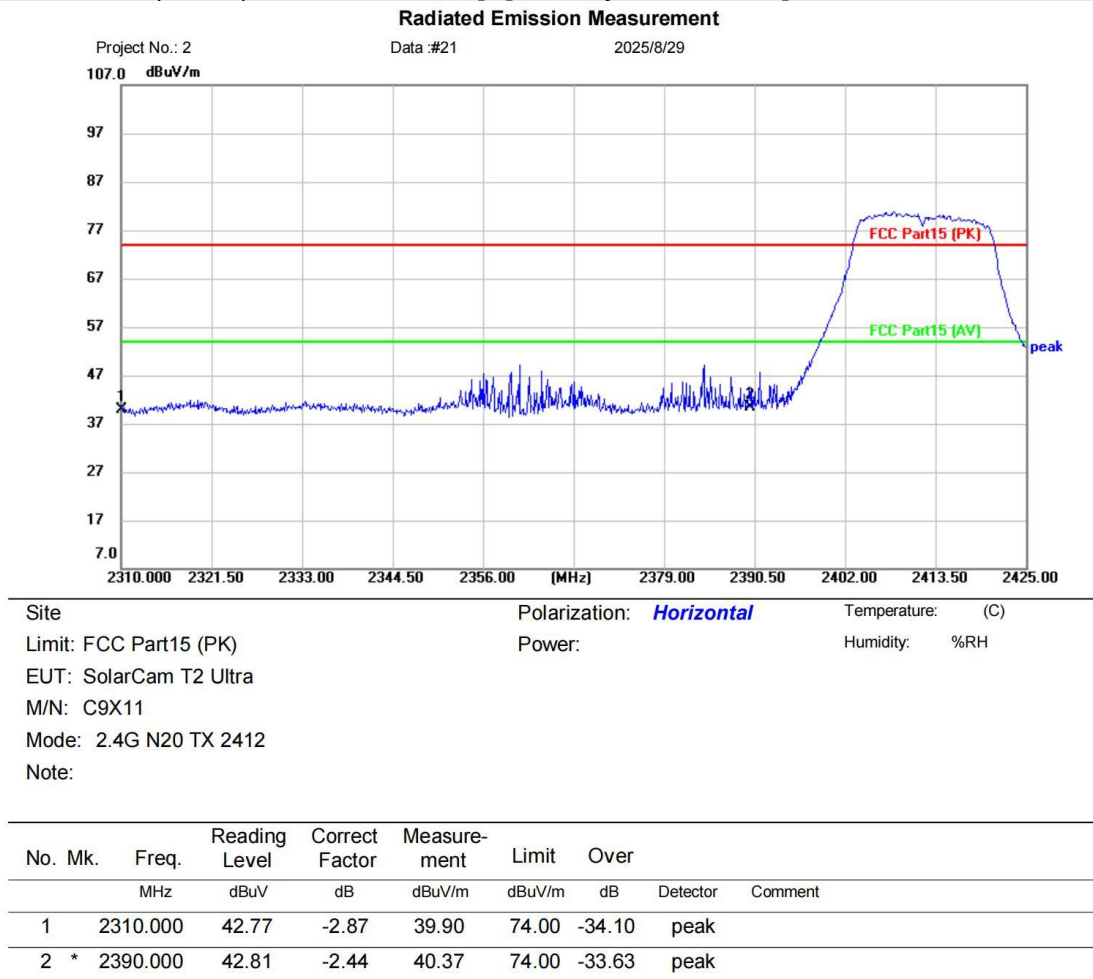
⟨Reference Only

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11N(HT20) TX low channel]; [Polarity: Horizontal]



*:Maximum data x:Over limit !:over margin

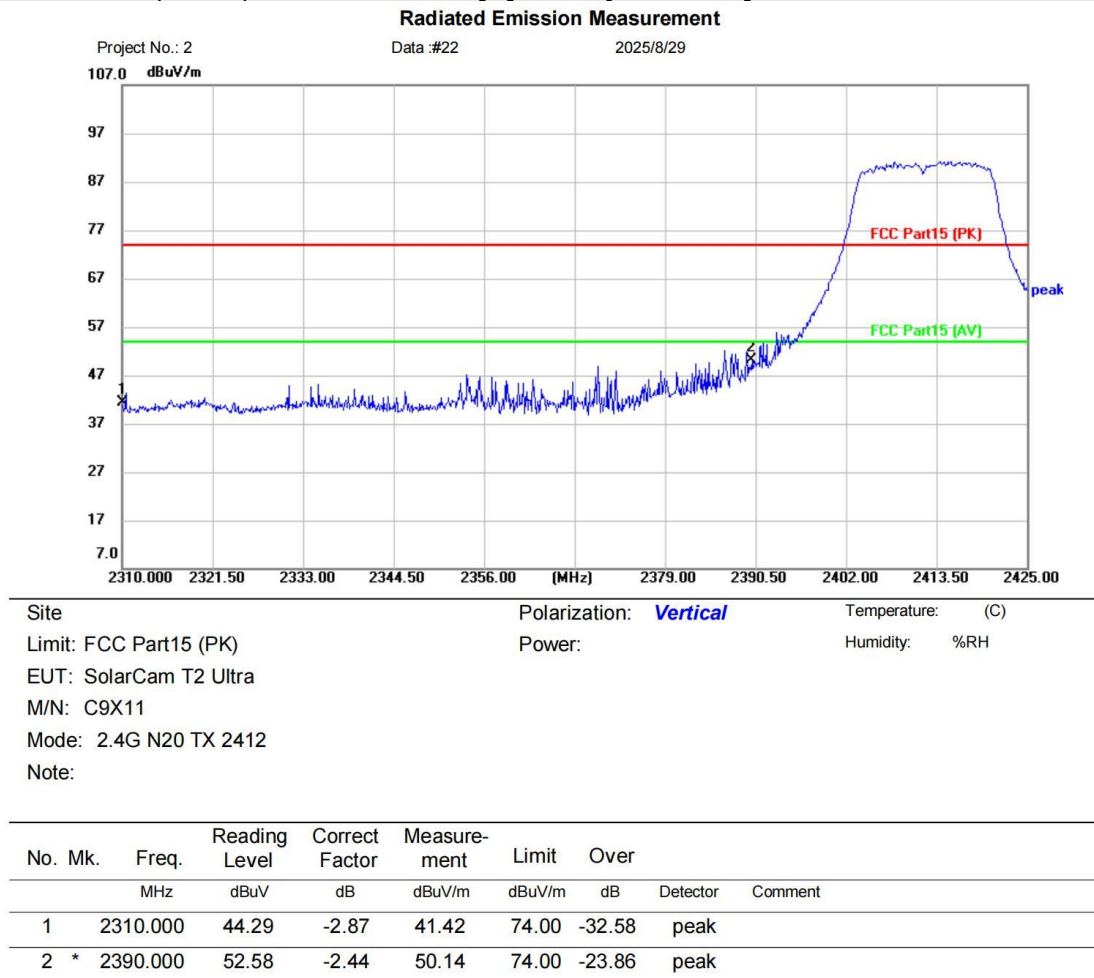
⟨Reference Only

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11N(HT20) TX low channel]; [Polarity: Vertical]



*:Maximum data x:Over limit !:over margin

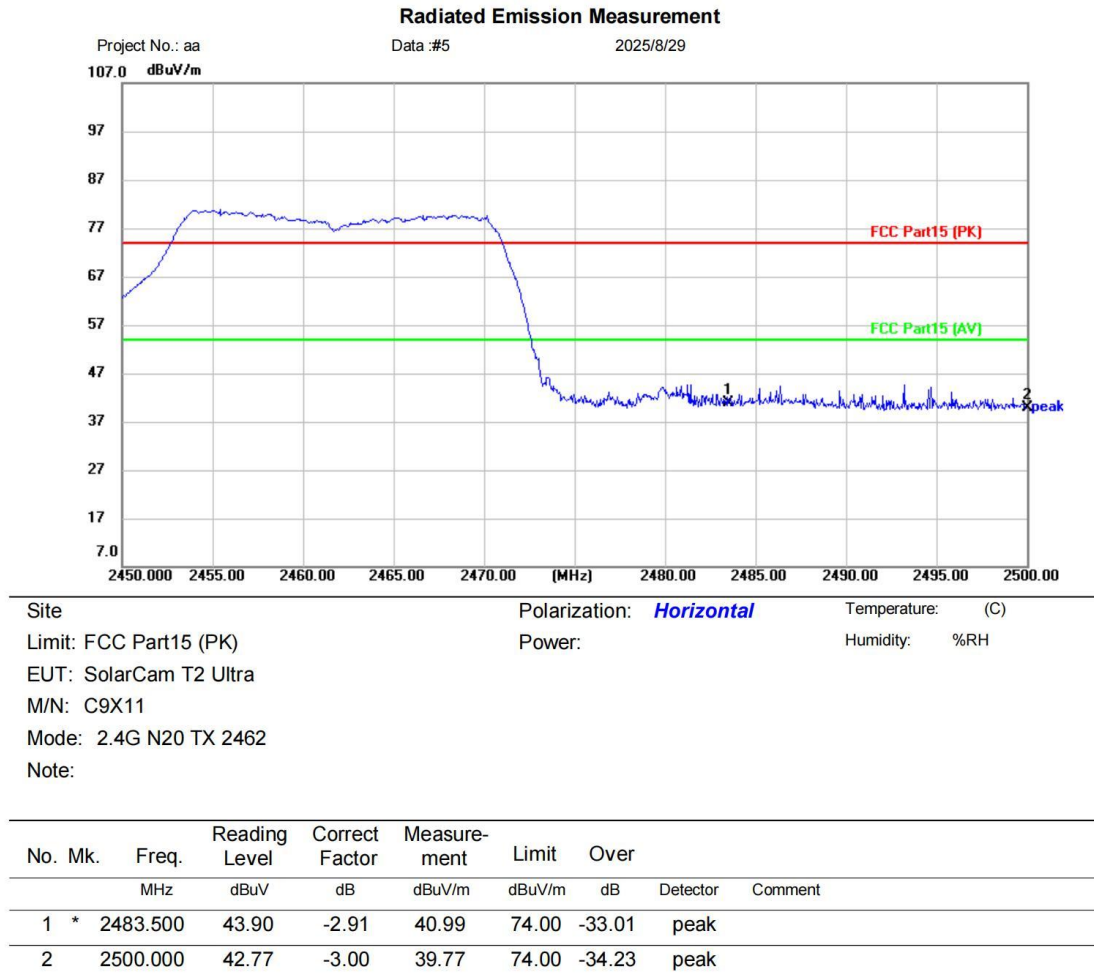
⟨Reference Only

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11N(HT20) TX High channel]; [Polarity: Horizontal]



*:Maximum data x:Over limit !:over margin

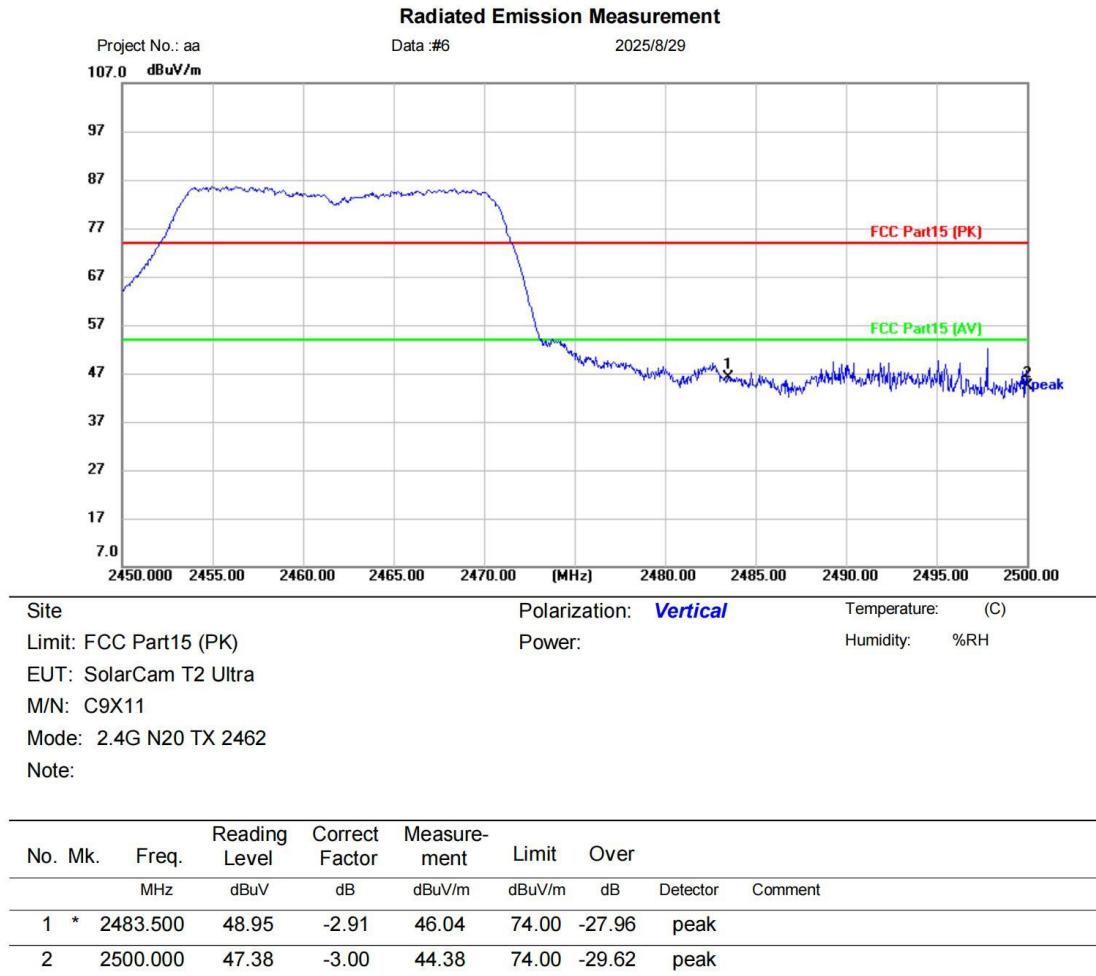
⟨Reference Only

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11N(HT20) TX High channel]; [Polarity: Vertical]



*:Maximum data x:Over limit !:over margin

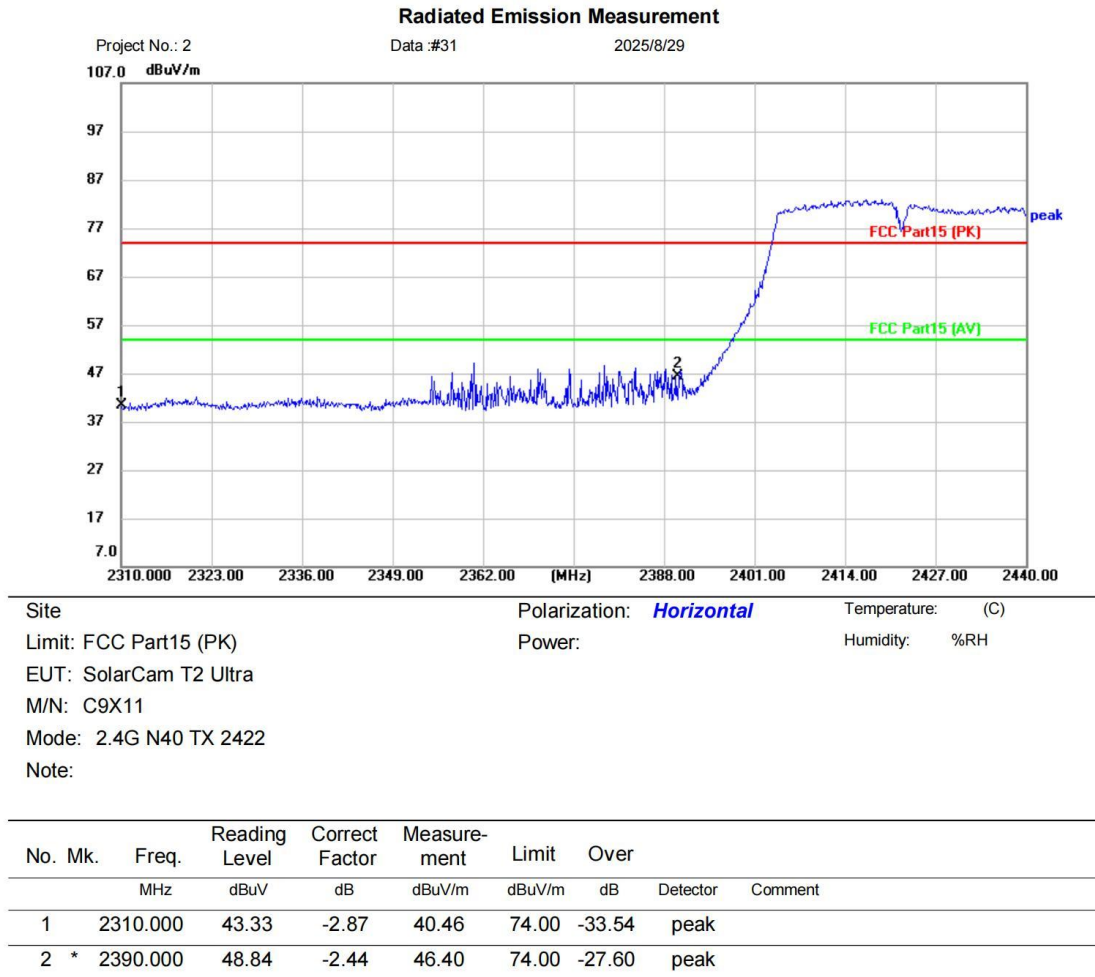
⟨Reference Only

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11N(HT40) TX low channel]; [Polarity: Horizontal]

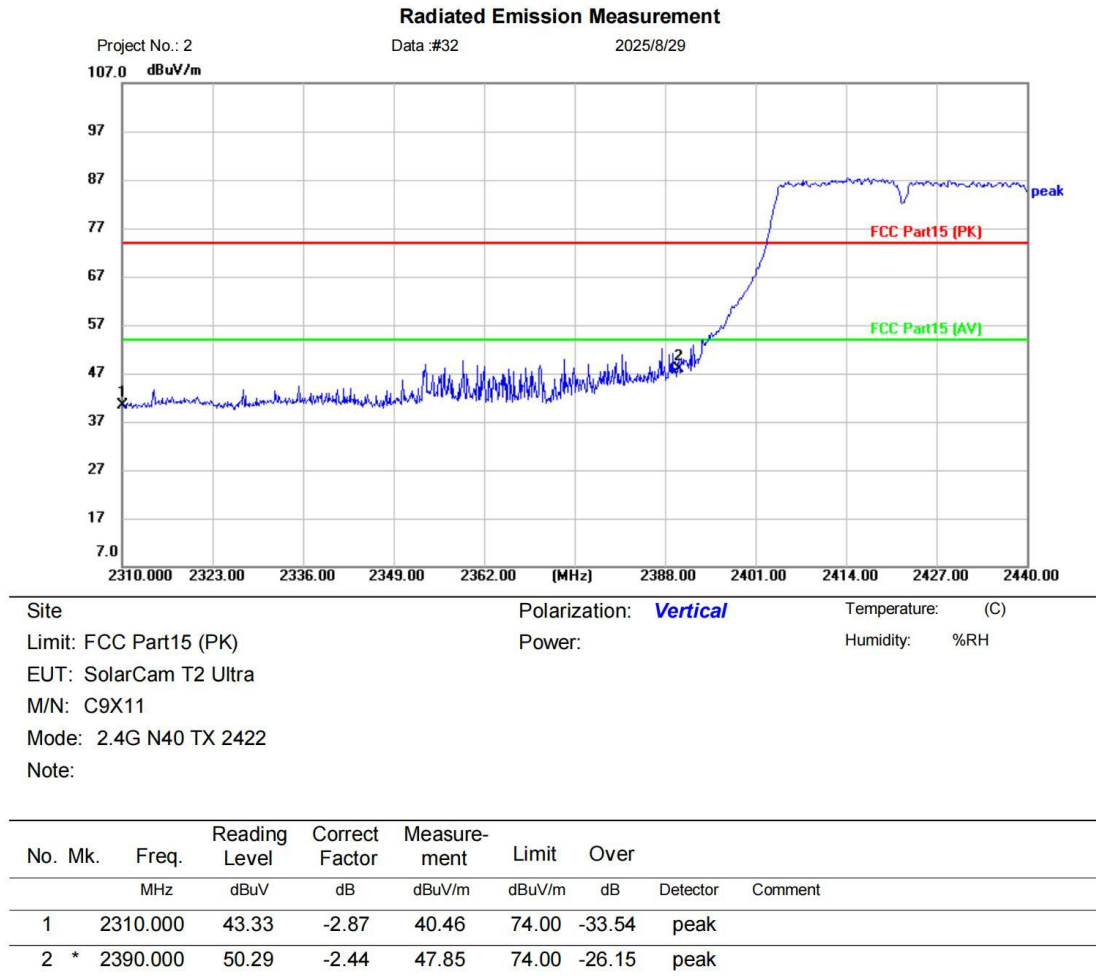


*:Maximum data x:Over limit !:over margin <Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11N(HT40) TX low channel]; [Polarity: Vertical]



*:Maximum data x:Over limit !:over margin

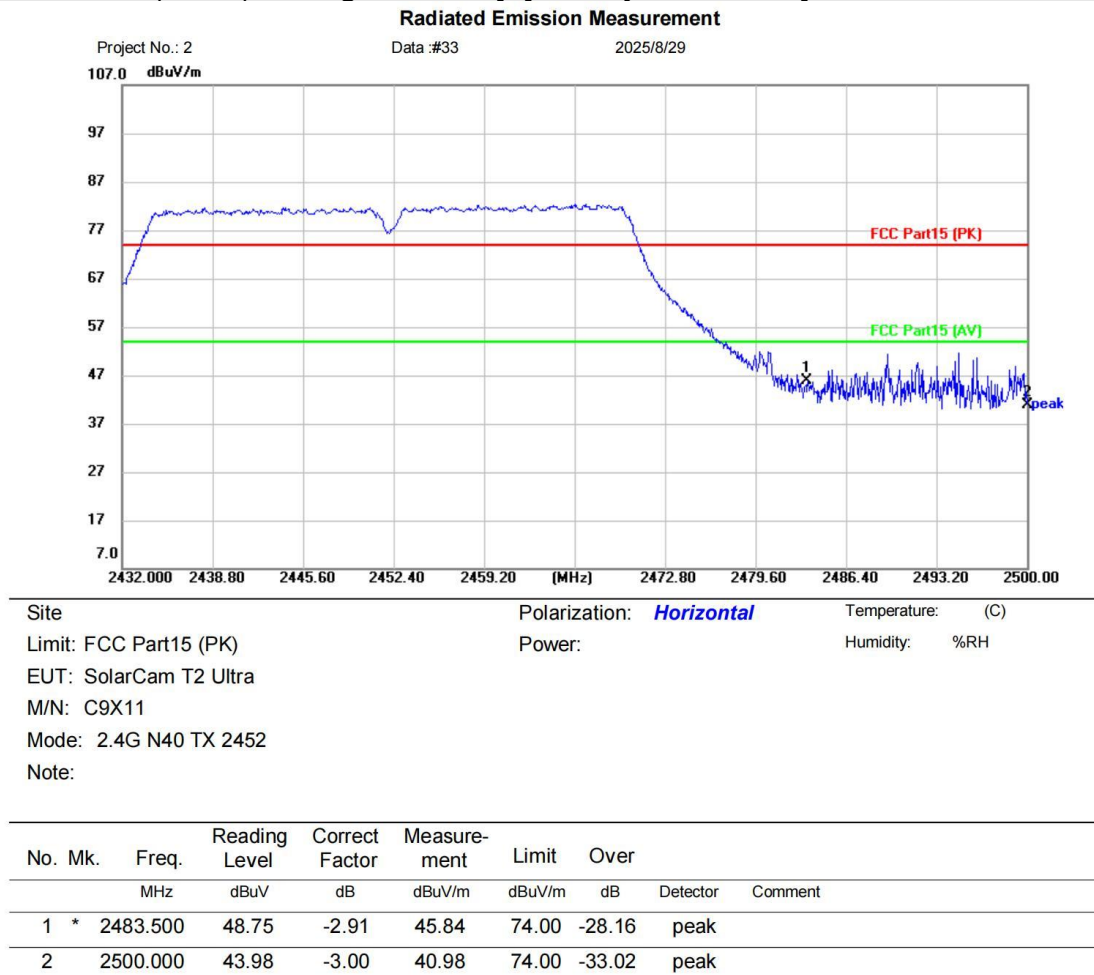
⟨Reference Only

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11N(HT40) TX High channel]; [Polarity: Horizontal]



*:Maximum data x:Over limit !:over margin

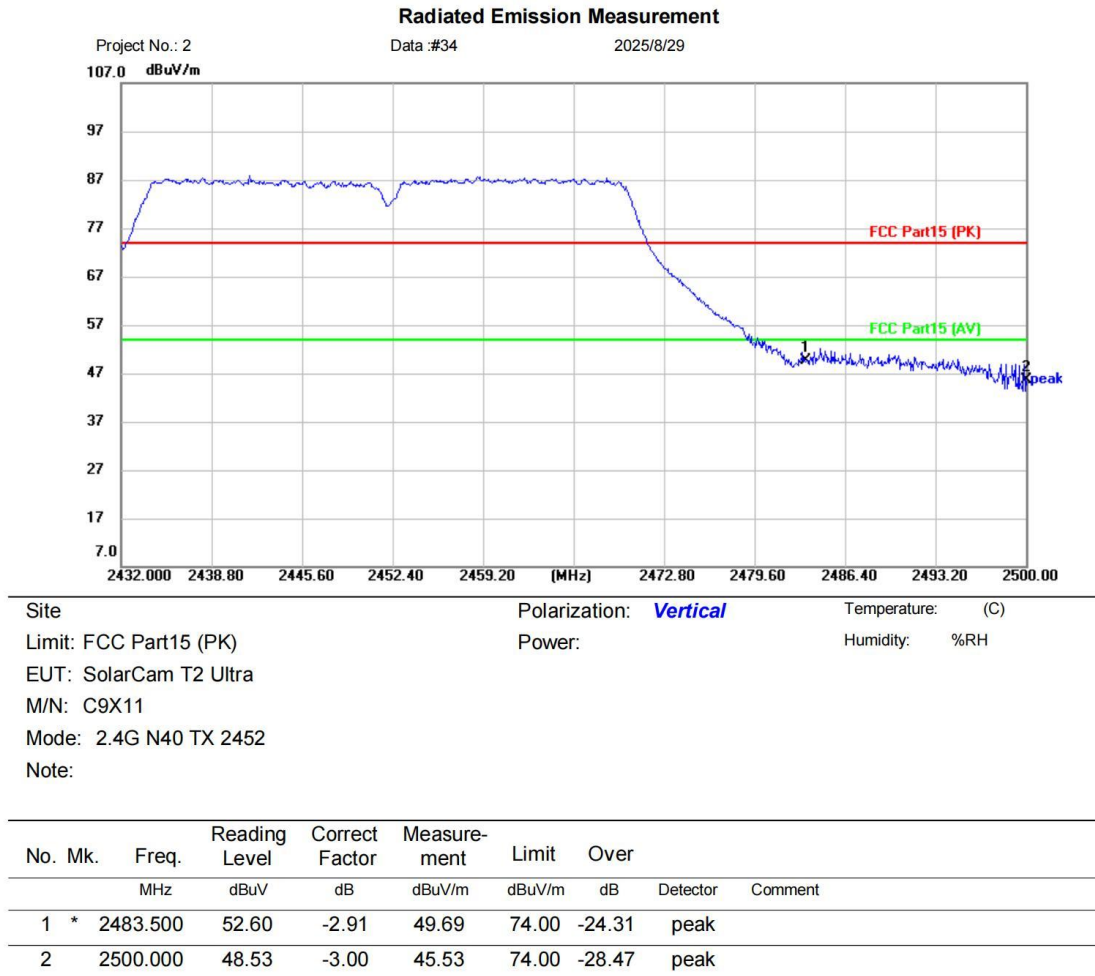
⟨Reference Only⟩

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11N(HT40) TX High channel]; [Polarity: Vertical]



*:Maximum data x:Over limit !:over margin <Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

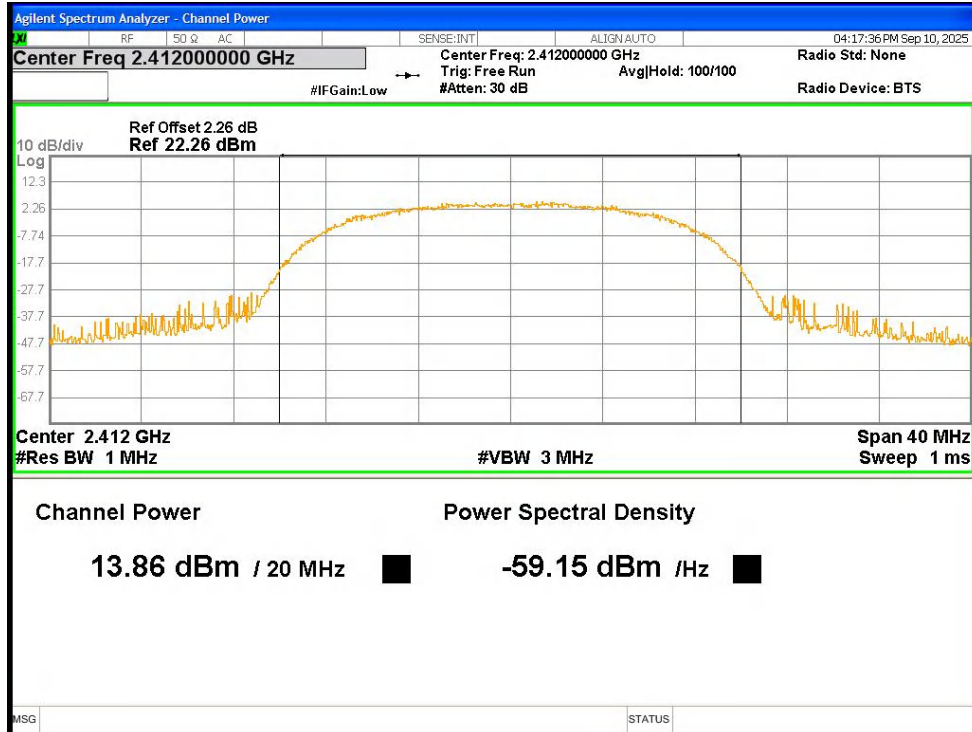
Test Result: Pass

7 Appendix A

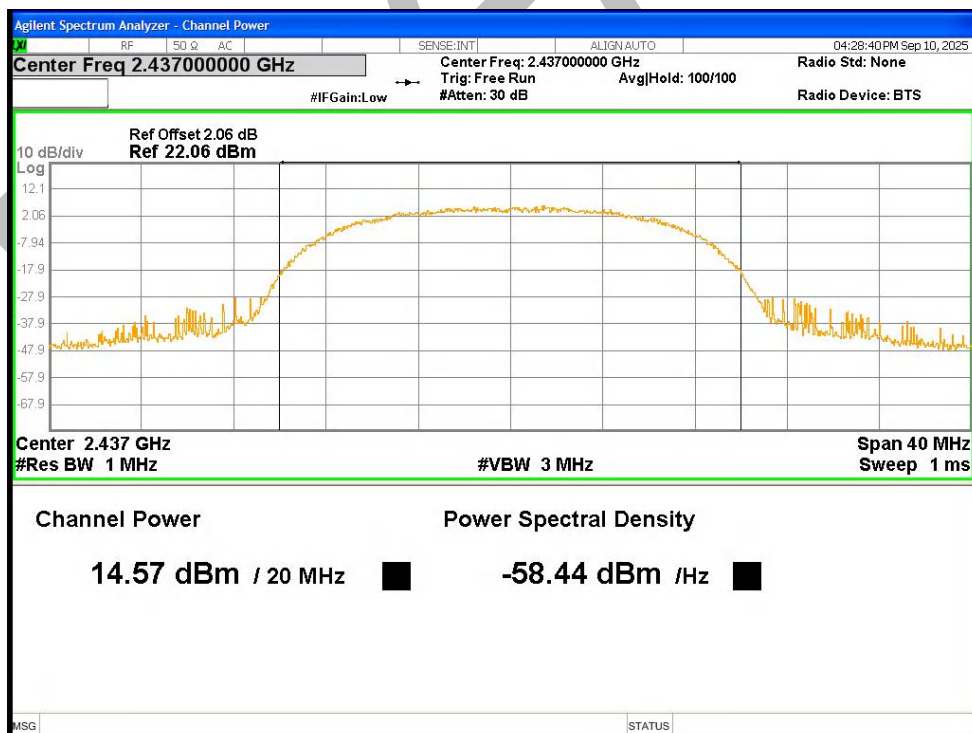
7.1 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	13.857	30	Pass
NVNT	b	2437	Ant1	14.57	30	Pass
NVNT	b	2462	Ant1	13.906	30	Pass
NVNT	g	2412	Ant1	14.285	30	Pass
NVNT	g	2437	Ant1	14.698	30	Pass
NVNT	g	2462	Ant1	14.214	30	Pass
NVNT	n20	2412	Ant1	13.961	30	Pass
NVNT	n20	2437	Ant1	14.461	30	Pass
NVNT	n20	2462	Ant1	14.325	30	Pass
NVNT	n40	2422	Ant1	13.841	30	Pass
NVNT	n40	2437	Ant1	14.453	30	Pass
NVNT	n40	2452	Ant1	14.279	30	Pass

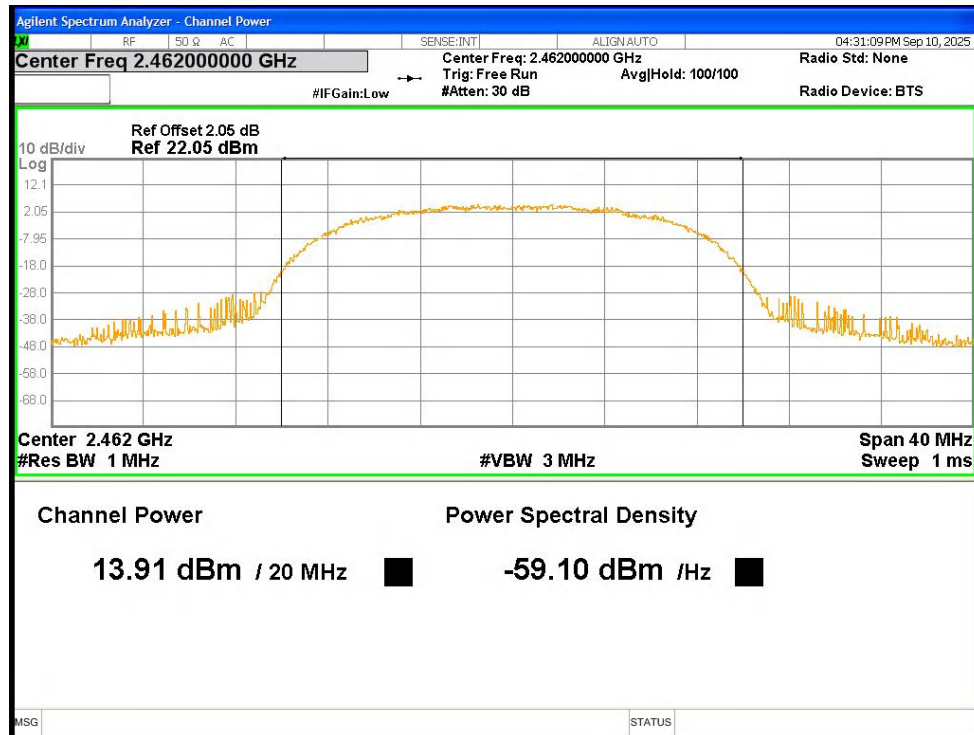
Power NVNT b 2412MHz Ant1



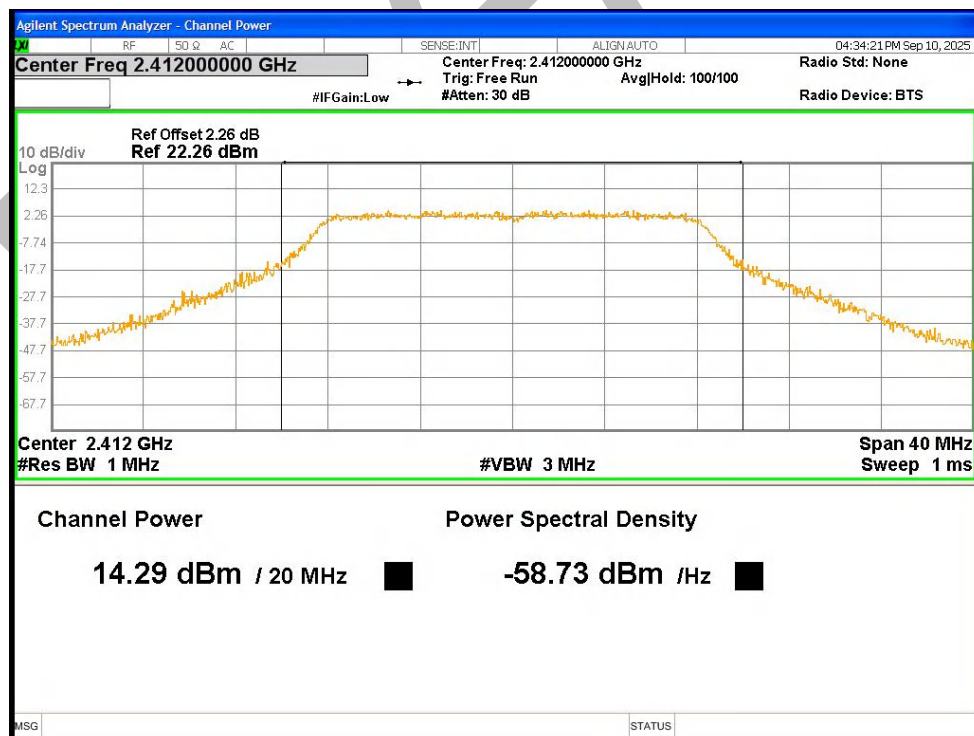
Power NVNT b 2437MHz Ant1



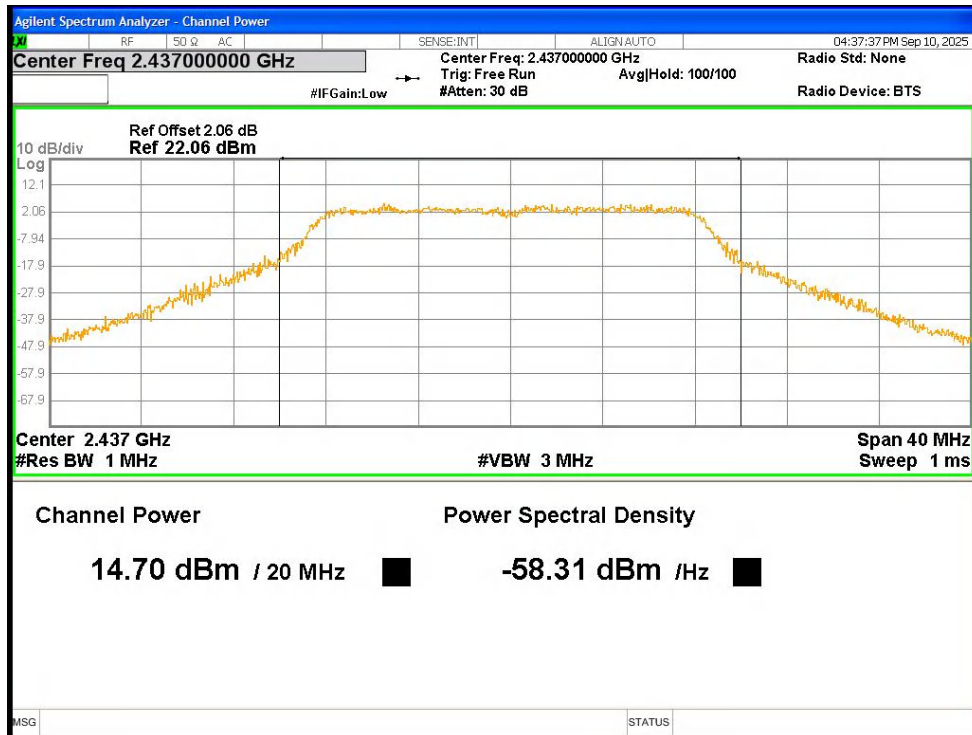
Power NVNT b 2462MHz Ant1



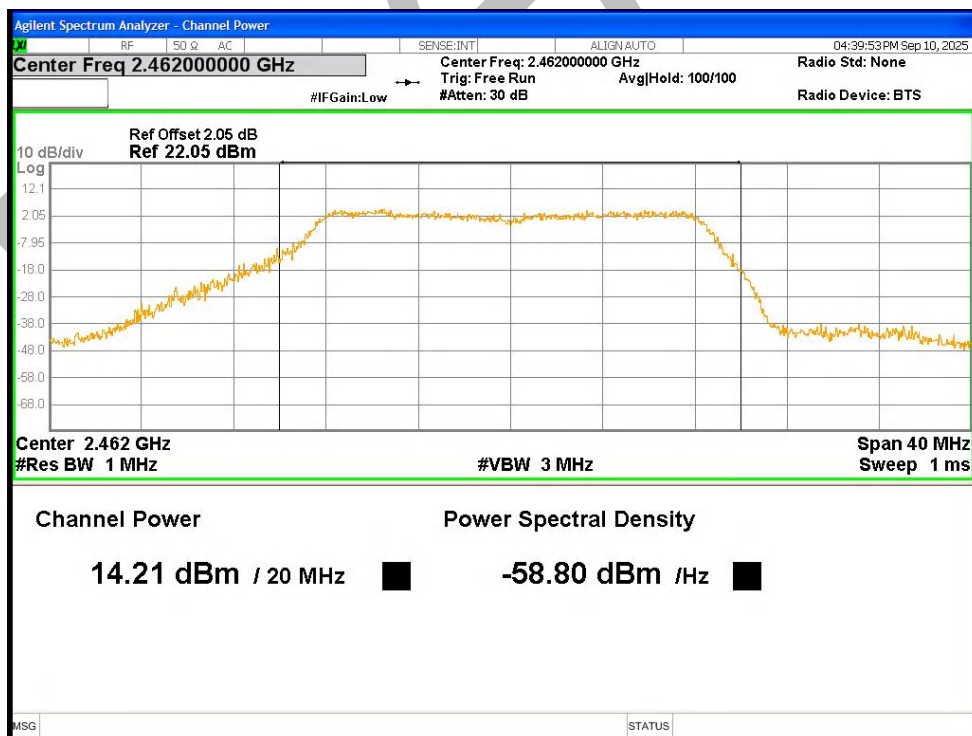
Power NVNT g 2412MHz Ant1



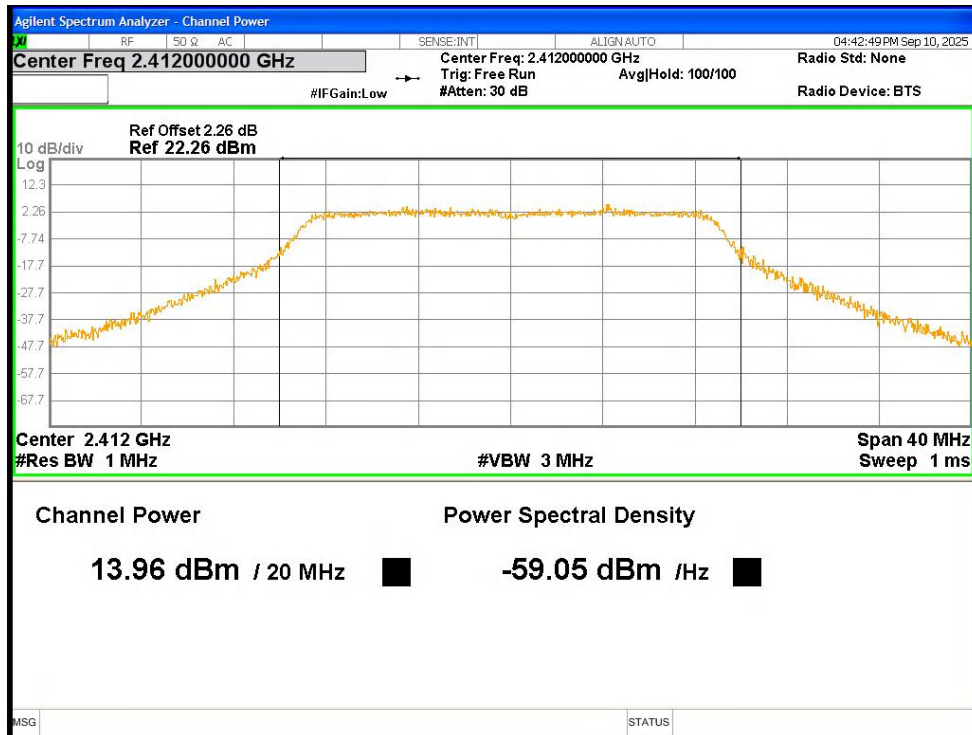
Power NVNT g 2437MHz Ant1



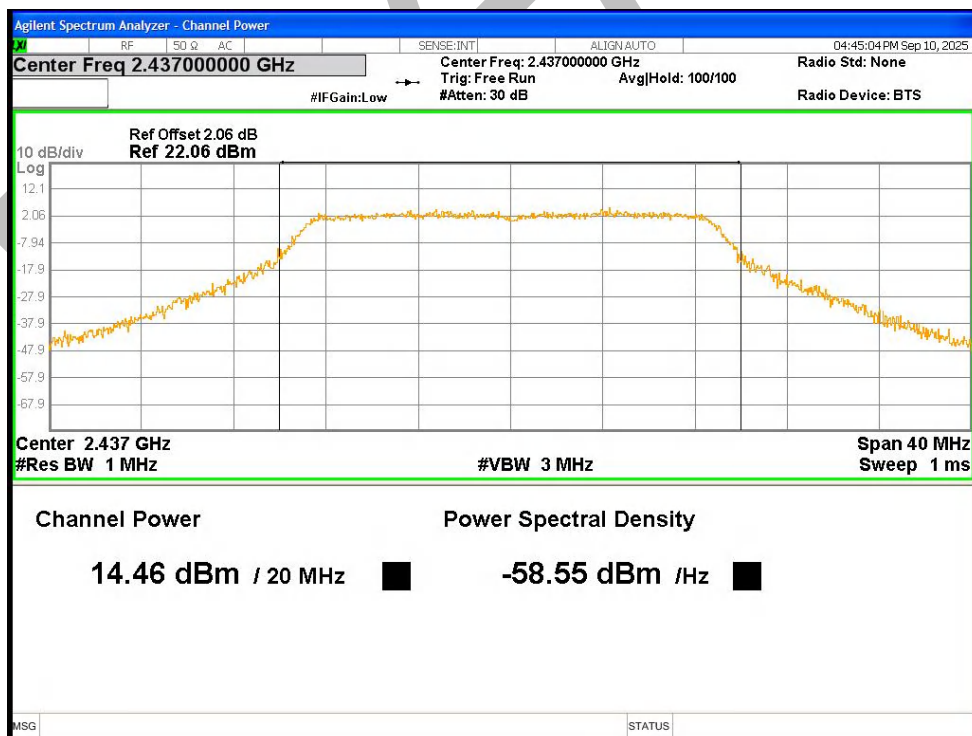
Power NVNT g 2462MHz Ant1



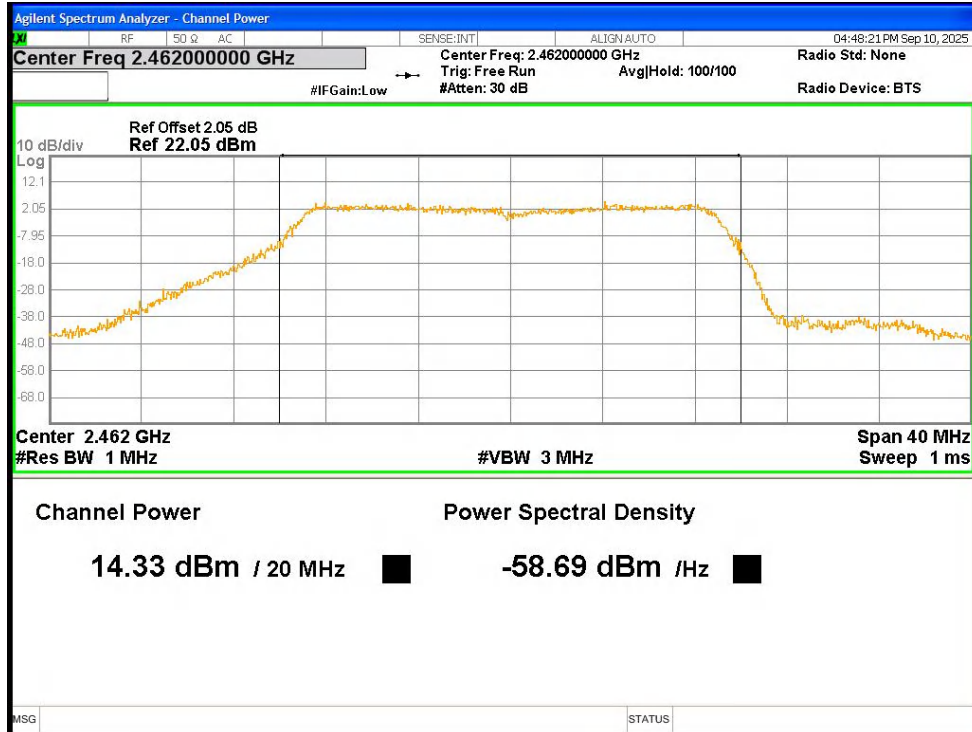
Power NVNT n20 2412MHz Ant1



Power NVNT n20 2437MHz Ant1



Power NVNT n20 2462MHz Ant1



Power NVNT n40 2422MHz Ant1

