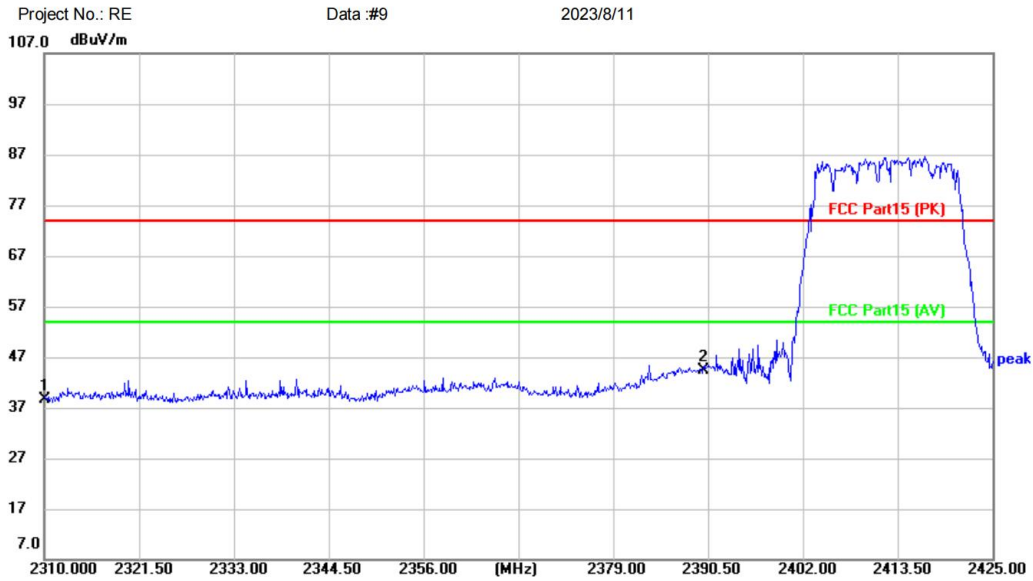


[TestMode: TX g low channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Security light with sensor		
M/N: 17000274		
Mode: 11G TX-L		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2310.000	42.92	-4.40	38.52	74.00	-35.48	peak	
2	*	2390.000	48.57	-4.31	44.26	74.00	-29.74	peak	

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

(Reference Only)

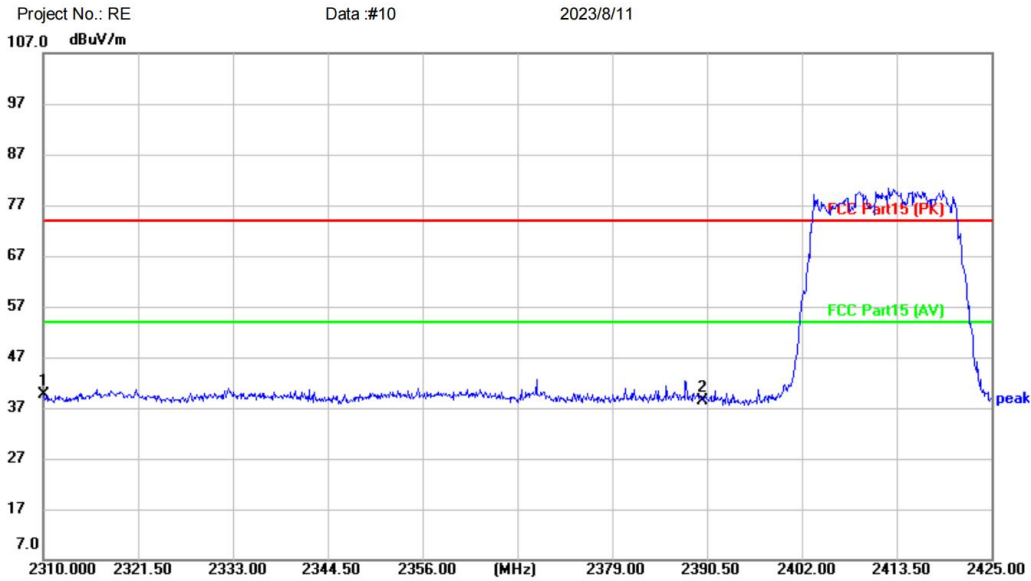
Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[TestMode: TX g low channel]; [Polarity: Vertical]

Radiated Emission Measurement



Site	Polarization: Vertical	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Security light with sensor		
M/N: 17000274		
Mode: 11G TX-L		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2310.000	44.00	-4.40	39.60	74.00	-34.40	peak	
2		2390.000	42.60	-4.31	38.29	74.00	-35.71	peak	

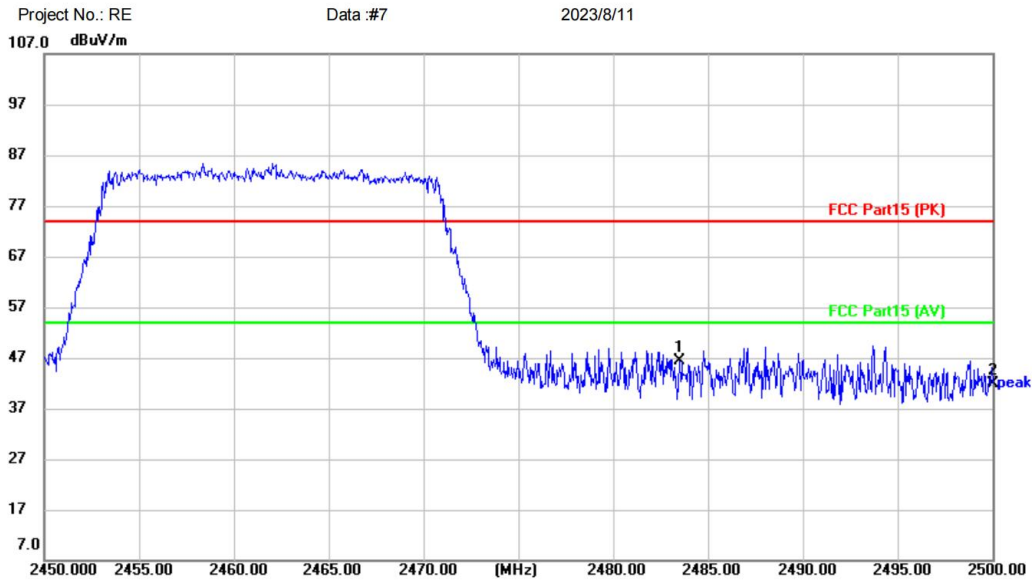
*:Maximum data x:Over limit !:over margin (Reference Only)

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[TestMode: TX g high channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Security light with sensor		
M/N: 17000274		
Mode: 11G TX-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2483.500	50.92	-4.64	46.28	74.00	-27.72	peak	
2		2500.000	46.62	-4.75	41.87	74.00	-32.13	peak	

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

(Reference Only)

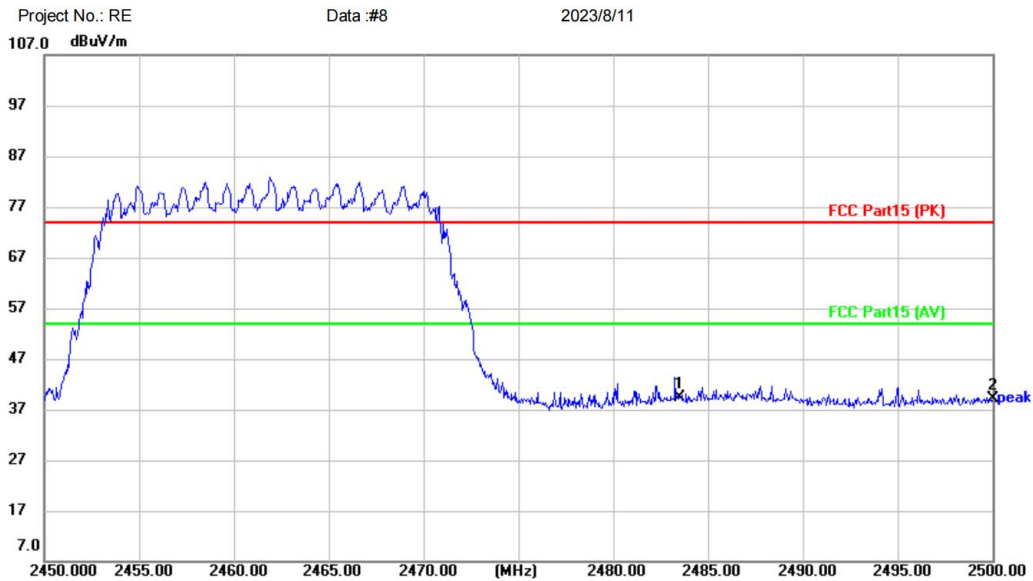
Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[TestMode: TX g high channel]; [Polarity: Vertical]

Radiated Emission Measurement



Site: Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: Security light with sensor
 M/N: 17000274
 Mode: 11G TX-H
 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	43.98	-4.64	39.34	74.00	-34.66	peak	
2		2500.000	43.78	-4.75	39.03	74.00	-34.97	peak	

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

<Reference Only

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[TestMode: TX n20 low channel]; [Polarity: Horizontal]

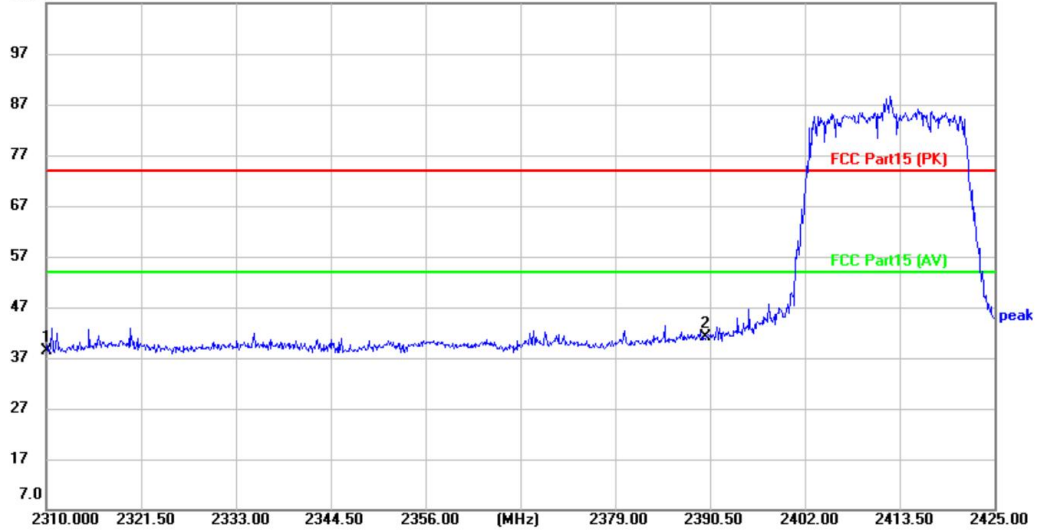
Radiated Emission Measurement

Project No.: RE

Data #11

2023/8/11

107.0 dBuV/m



Site: Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: Security light with sensor
 M/N: 17000274
 Mode: 11N20 TX-L
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2310.000	42.73	-4.40	38.33	74.00	-35.67	peak	
2	*	2390.000	45.53	-4.31	41.22	74.00	-32.78	peak	

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

(Reference Only)

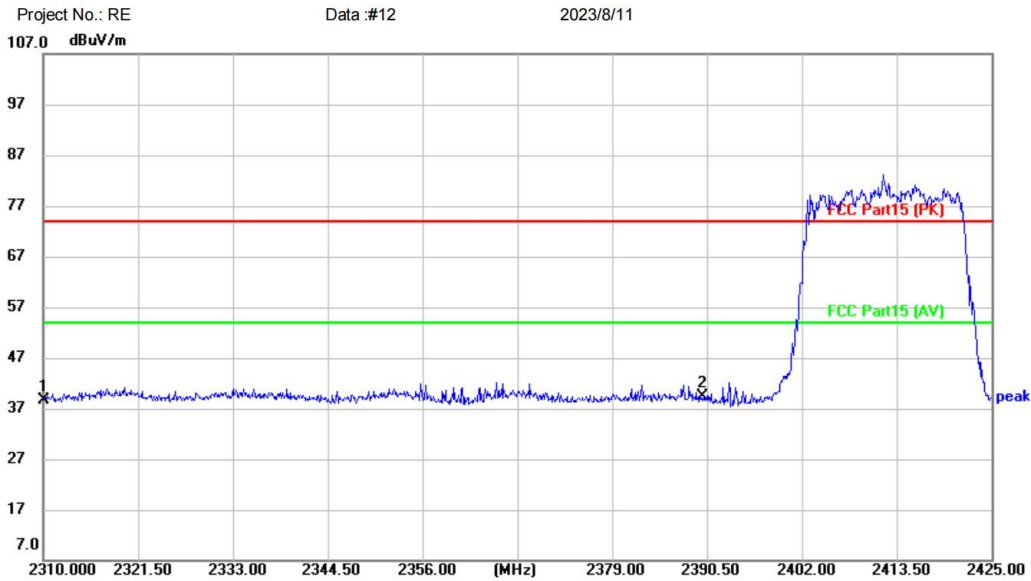
Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[TestMode: TX n20 low channel]; [Polarity: Vertical]

Radiated Emission Measurement



Site: Polarization: **Vertical** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: Security light with sensor
M/N: 17000274
Mode: 11N20 TX-L
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2310.000	43.07	-4.40	38.67	74.00	-35.33	peak	
2	*	2390.000	43.66	-4.31	39.35	74.00	-34.65	peak	

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

(Reference Only)

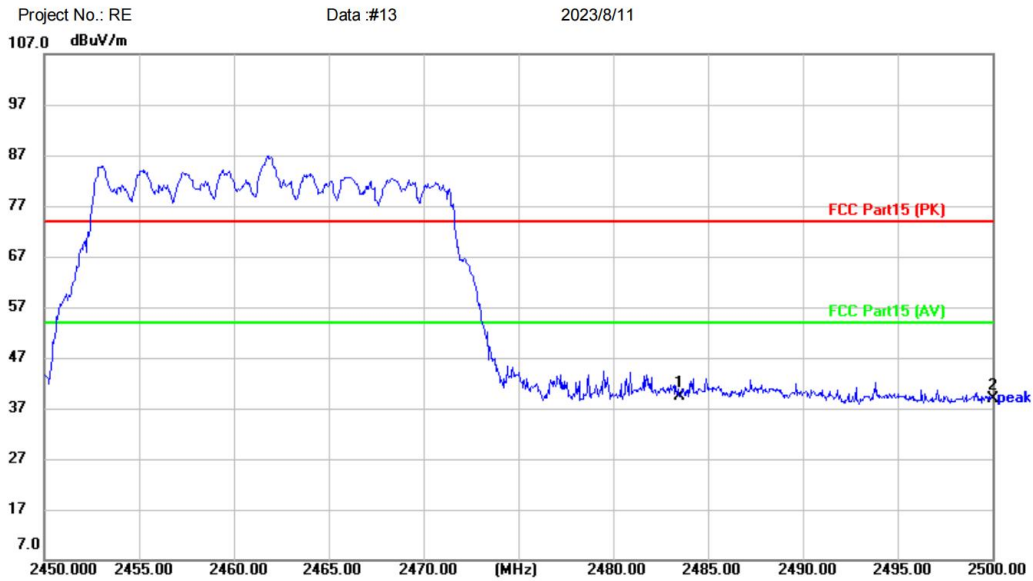
Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[TestMode: TX n20 high channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site: Polarization: **Horizontal** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: Security light with sensor
M/N: 17000274
Mode: 11N20 TX-H
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2483.500	44.08	-4.64	39.44	74.00	-34.56	peak	
2		2500.000	43.72	-4.75	38.97	74.00	-35.03	peak	

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

(Reference Only)

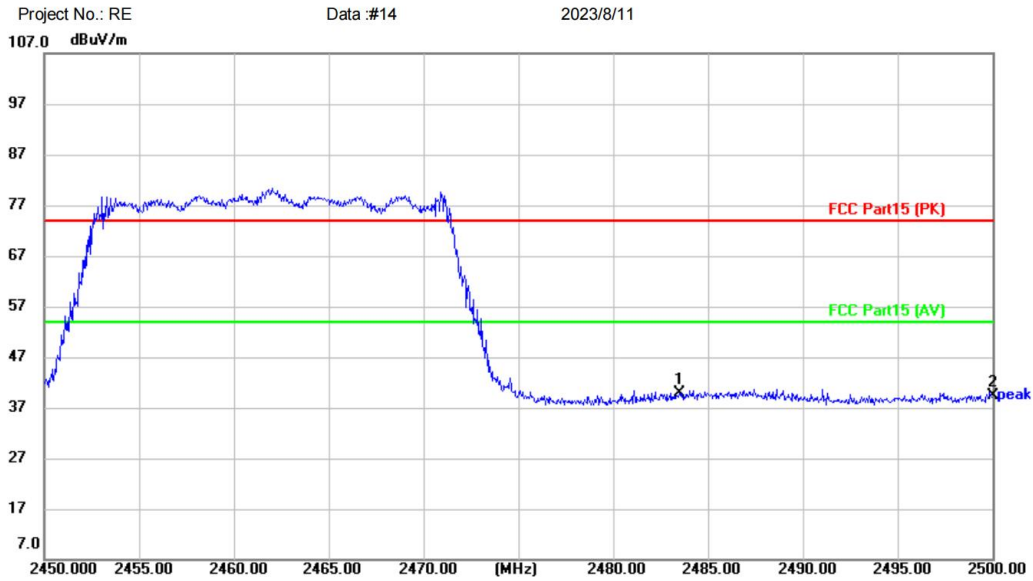
Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[TestMode: TX n20 high channel]; [Polarity: Vertical]

Radiated Emission Measurement



Site: Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: Security light with sensor
 M/N: 17000274
 Mode: 11N20 TX-H
 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	44.43	-4.64	39.79	74.00	-34.21	peak	
2		2500.000	44.21	-4.75	39.46	74.00	-34.54	peak	

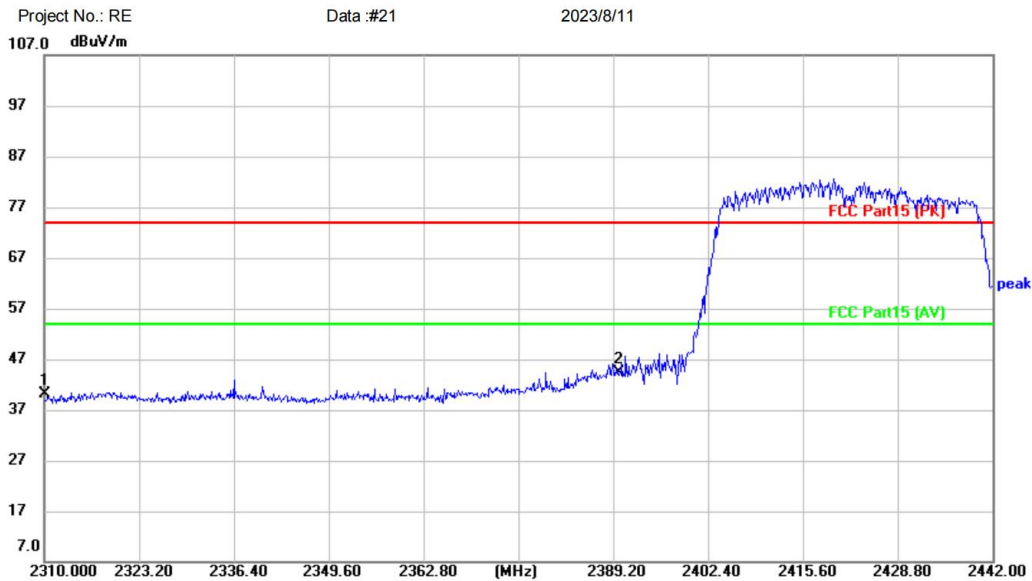
*:Maximum data x:Over limit !:over margin (Reference Only)

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[TestMode: TX n40 low channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Security light with sensor		
M/N: 17000274		
Mode: 11N40 TX-L		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2310.000	44.48	-4.40	40.08	74.00	-33.92	peak	
2	*	2390.000	48.68	-4.31	44.37	74.00	-29.63	peak	

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

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

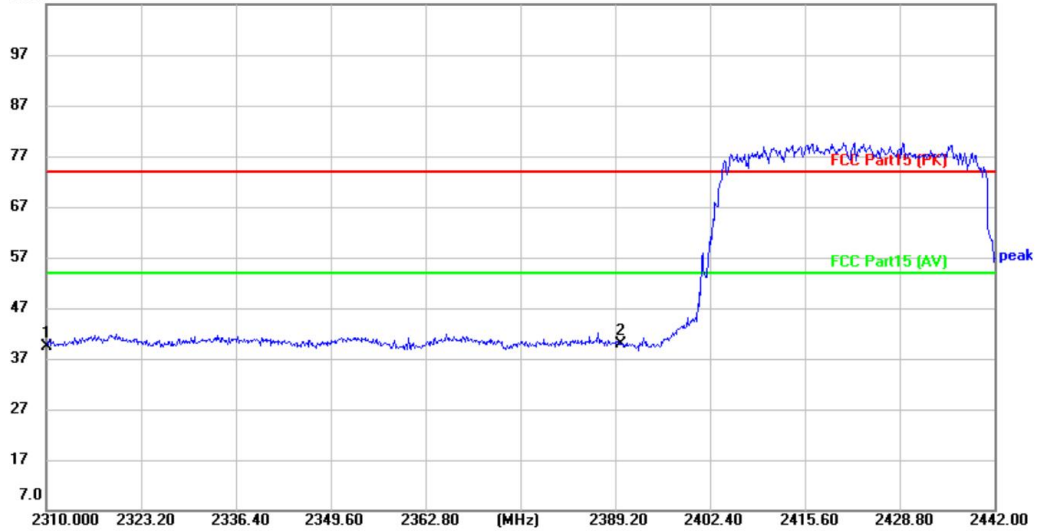
[TestMode: TX n40 low channel]; [Polarity: Vertical]

Radiated Emission Measurement

Project No.: RE
107.0 dBuV/m

Data #22

2023/8/11



Site	Polarization: Vertical	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Security light with sensor		
M/N: 17000274		
Mode: 11N40 TX-L		
Note:		

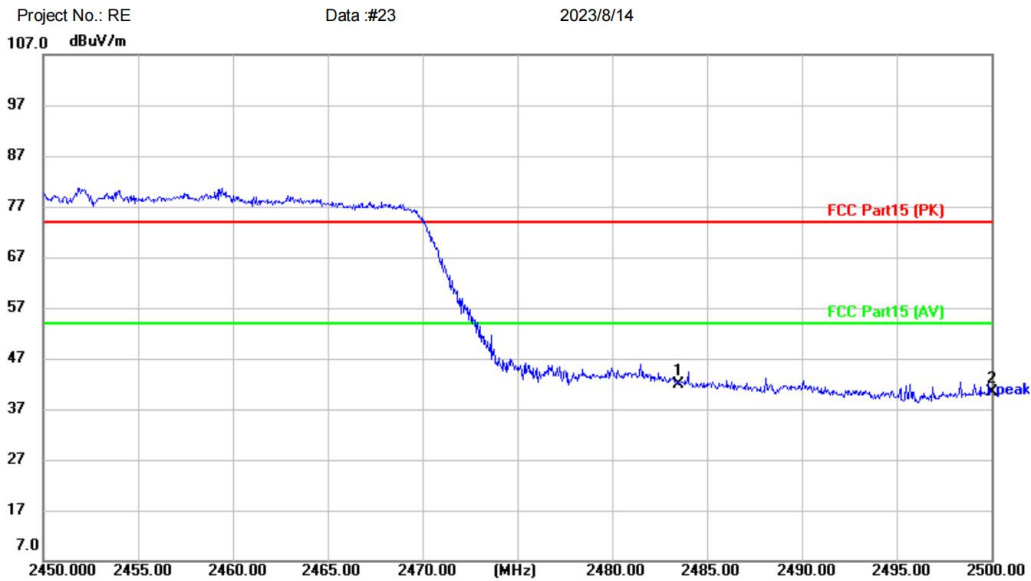
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2310.000	43.81	-4.40	39.41	74.00	-34.59	peak	
2	*	2390.000	44.28	-4.31	39.97	74.00	-34.03	peak	

*:Maximum data x:Over limit !:over margin (Reference Only)
Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[TestMode: TX n40 high channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site: Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: Security light with sensor
 M/N: 17000274
 Mode: 11N40 TX-H
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2483.500	46.48	-4.64	41.84	74.00	-32.16	peak	
2		2500.000	45.25	-4.75	40.50	74.00	-33.50	peak	

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

(Reference Only)

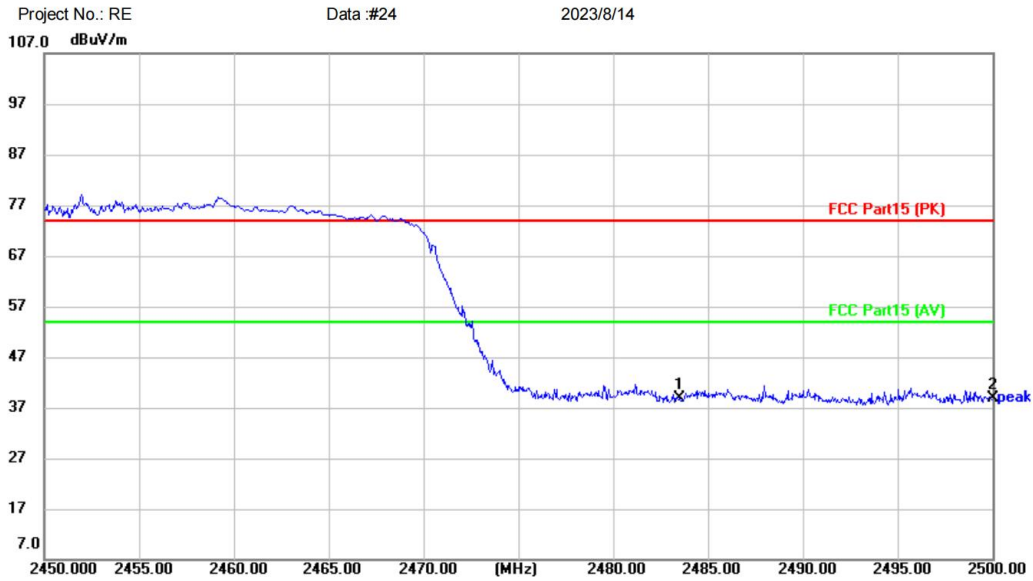
Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[TestMode: TX n40 high channel]; [Polarity: Vertical]

Radiated Emission Measurement



Site: Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: Security light with sensor
 M/N: 17000274
 Mode: 11N40 TX-H
 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	43.48	-4.64	38.84	74.00	-35.16	peak	
2	*	2500.000	43.69	-4.75	38.94	74.00	-35.06	peak	

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

(Reference Only)

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

Remark:

1. Final Level = Receiver Read level + Correct factor
2. Correct factor = Antenna Factor + Cable Loss – Preamplifier Factor
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

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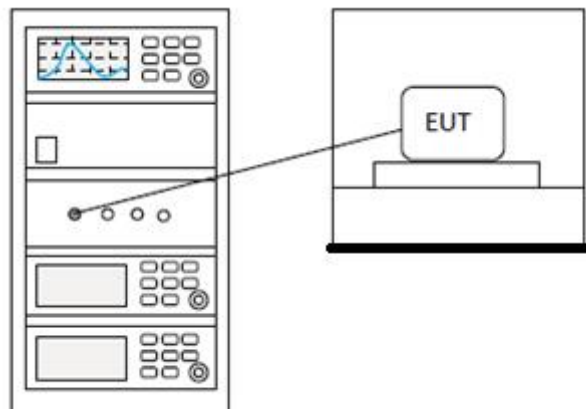
13 CONDUCTED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

13.1 LIMITS

Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. 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. Attenuation below the general limits specified in §15.209(a) is not required. 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 in §15.209(a) (see §15.205(c)).
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13.2 BLOCK DIAGRAM OF TEST SETUP



13.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

BlueAsia

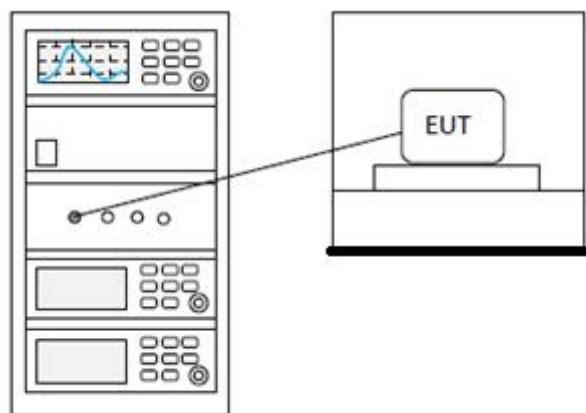
14 CONDUCTED BAND EDGES MEASUREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

14.1 LIMITS

Limit:	<p>In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. 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. Attenuation below the general limits specified in §15.209(a) is not required. 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 in §15.209(a) (see §15.205(c)).</p>
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14.2 BLOCK DIAGRAM OF TEST SETUP



14.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

BlueAsia

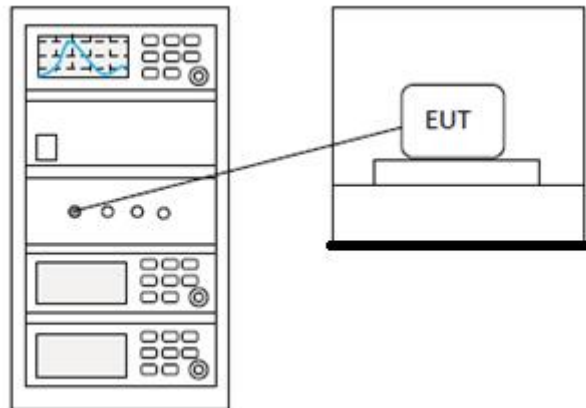
15 MINIMUM 6DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

15.1 LIMITS

Limit:	≥ 500 kHz
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15.2 BLOCK DIAGRAM OF TEST SETUP



15.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

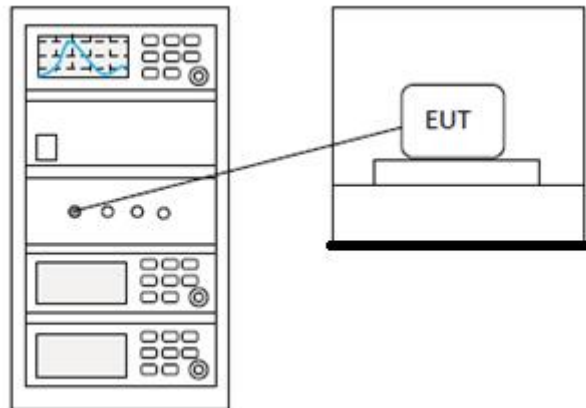
16 POWER SPECTRUM DENSITY

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

16.1 LIMITS

Limit: $\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission

16.2 BLOCK DIAGRAM OF TEST SETUP



16.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

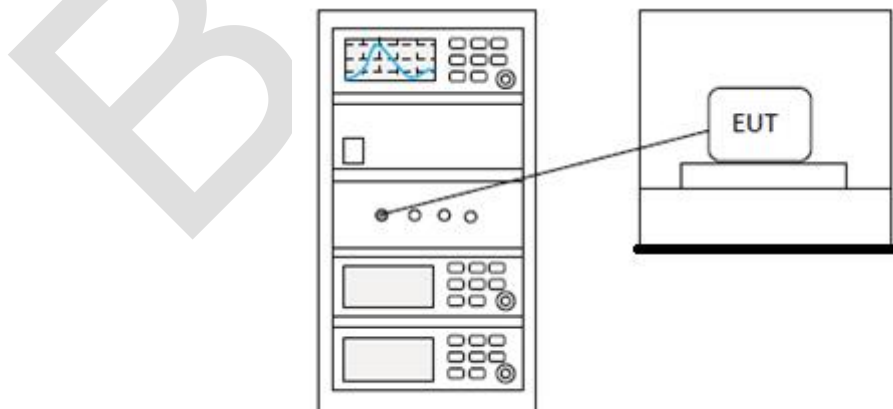
17 CONDUCTED PEAK OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5 & Section 11.9.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

17.1 LIMITS

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

17.2 BLOCK DIAGRAM OF TEST SETUP



17.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

BlueAsia

18 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)

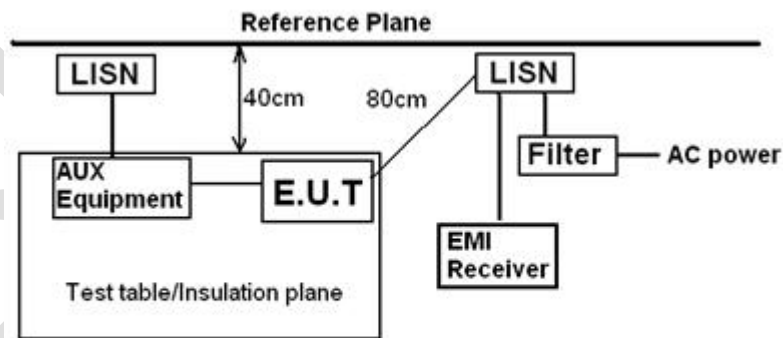
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

18.1 LIMITS

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

18.2 BLOCK DIAGRAM OF TEST SETUP



Remark:
 E.U.T: Equipment Under Test
 LISN: Line Impedance Stabilization Network
 Test table height=0.8m

18.3 PROCEDURE

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

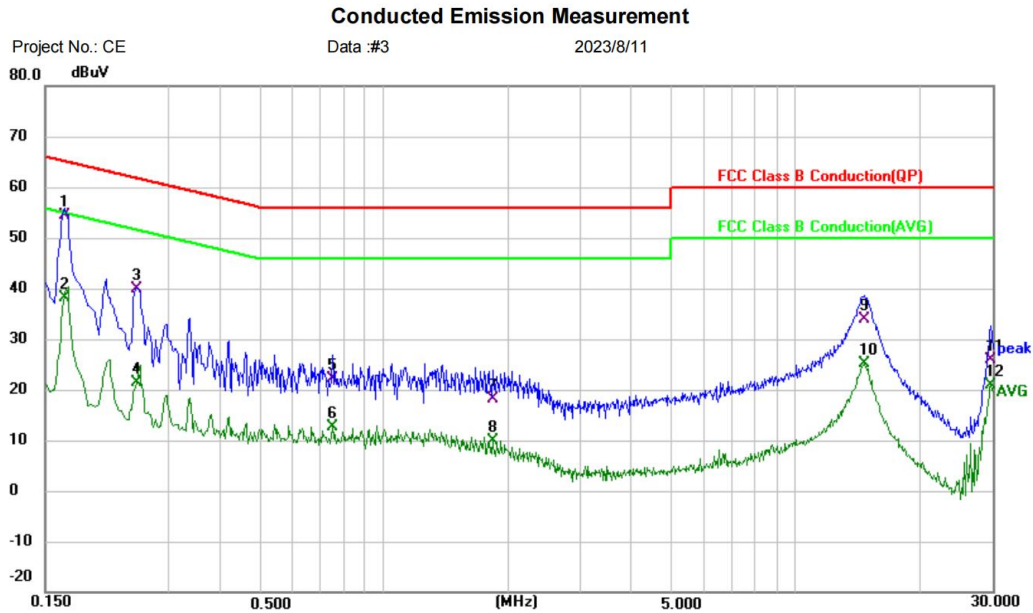
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

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18.1 TEST DATA

[TestMode: TX mode]; [Line: Line] ;[Power:AC120V/60Hz]



Site	Phase: L1	Temperature: (C)
Limit: FCC Class B Conduction(QP)	Power:	Humidity: %RH
EUT: Security light with sensor	Distance: RBW: 9 KHz	Sweep Time: 10 ms
M/N: 17000274	VBW: 30 KHz	
Mode: 2.4G TX mode		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1	*	0.1660	53.69	0.78	54.47	65.16	-10.69			QP
2		0.1660	37.45	0.78	38.23	55.16	-16.93			AVG
3		0.2500	38.98	0.82	39.80	61.76	-21.96			QP
4		0.2500	20.57	0.82	21.39	51.76	-30.37			AVG
5		0.7500	21.94	0.31	22.25	56.00	-33.75			QP
6		0.7500	12.29	0.31	12.60	46.00	-33.40			AVG
7		1.8300	17.93	0.22	18.15	56.00	-37.85			QP
8		1.8300	9.75	0.22	9.97	46.00	-36.03			AVG
9		14.7380	33.48	0.31	33.79	60.00	-26.21			QP
10		14.7380	24.71	0.31	25.02	50.00	-24.98			AVG
11		29.7380	25.23	0.55	25.78	60.00	-34.22			QP
12		29.7380	20.36	0.55	20.91	50.00	-29.09			AVG

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

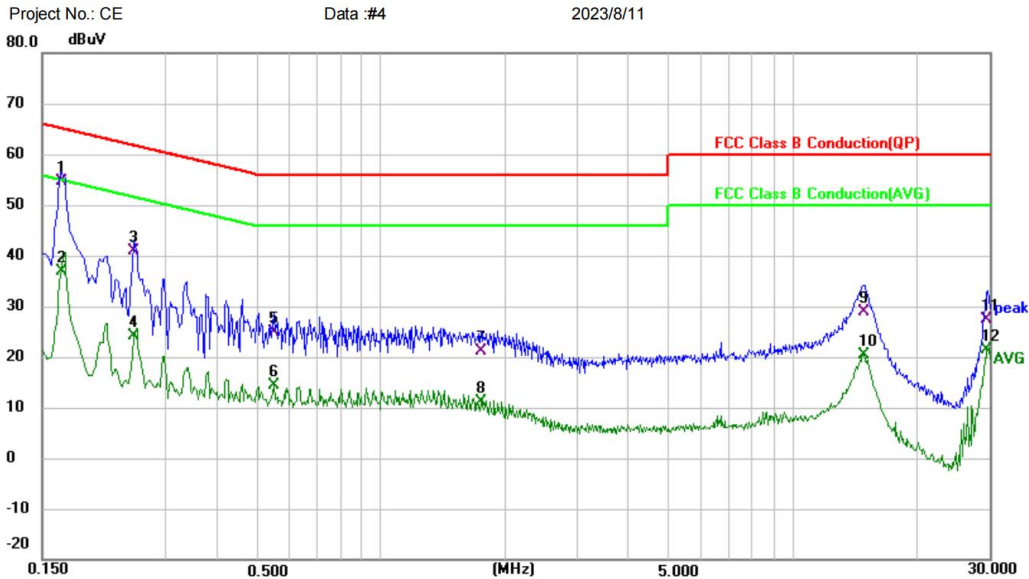
Receiver: ESPL1 Spectrum Analyzer: ESPI

L.I.S.N: Engineer Signature:

Test Result: Pass

[TestMode: Tx mode]; [Line: Neutral] ;[Power:AC120V/60Hz]

Conducted Emission Measurement



Site	Phase: N	Temperature: (C)
Limit: FCC Class B Conduction(QP)	Power:	Humidity: %RH
EUT: Security light with sensor	Distance:	RBW: 9 KHz
M/N: 17000274		VBW: 30 KHz
Mode: 2.4G TX mode		Sweep Time: 10 ms
Note:		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1	*	0.1660	53.78	0.86	54.64	65.16	-10.52	QP			
2		0.1660	36.01	0.86	36.87	55.16	-18.29	AVG			
3		0.2500	39.93	0.91	40.84	61.76	-20.92	QP			
4		0.2500	23.28	0.91	24.19	51.76	-27.57	AVG			
5		0.5460	24.37	0.39	24.76	56.00	-31.24	QP			
6		0.5460	14.04	0.39	14.43	46.00	-31.57	AVG			
7		1.7500	20.74	0.28	21.02	56.00	-34.98	QP			
8		1.7500	10.81	0.28	11.09	46.00	-34.91	AVG			
9		14.8860	28.51	0.44	28.95	60.00	-31.05	QP			
10		14.8860	19.84	0.44	20.28	50.00	-29.72	AVG			
11		29.6620	26.78	0.53	27.31	60.00	-32.69	QP			
12		29.6620	20.84	0.53	21.37	50.00	-28.63	AVG			

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

<Reference Only

Receiver: ESPI_1

Spectrum Analyzer: ESPI

L.I.S.N:

Engineer Signature:

Test Result: Pass

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level =Receiver Read level + LISN Factor + Cable Loss.

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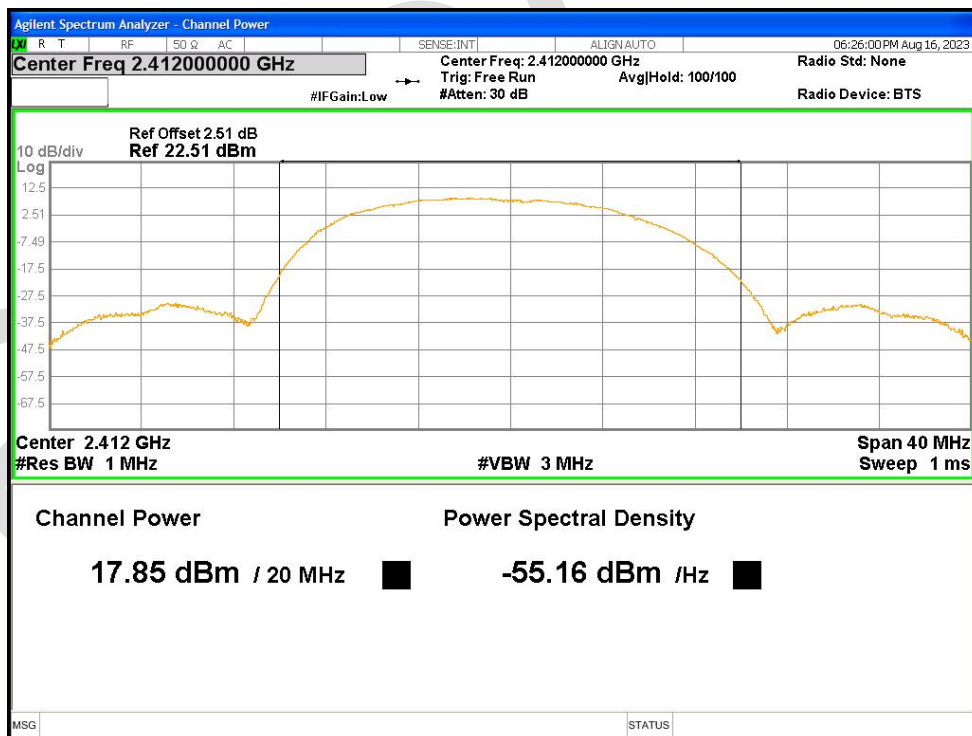
19 APPENDIX

Appendix1

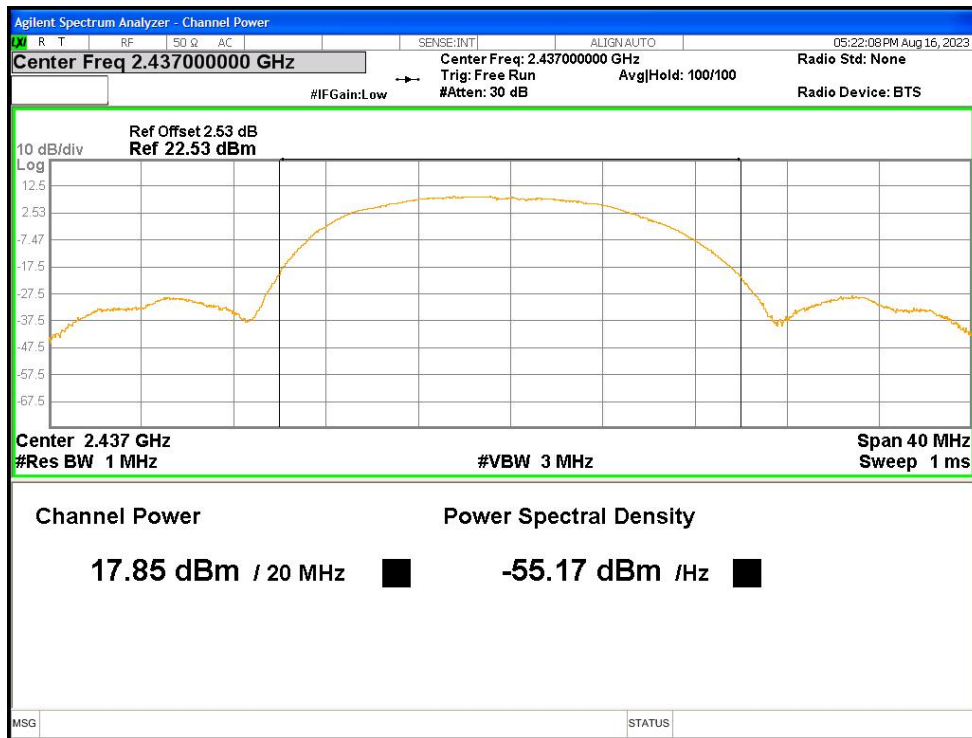
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	17.849	30	Pass
NVNT	b	2437	Ant1	17.845	30	Pass
NVNT	b	2462	Ant1	17.692	30	Pass
NVNT	g	2412	Ant1	18.339	30	Pass
NVNT	g	2437	Ant1	17.979	30	Pass
NVNT	g	2462	Ant1	17.426	30	Pass
NVNT	n20	2412	Ant1	17.22	30	Pass
NVNT	n20	2437	Ant1	16.874	30	Pass
NVNT	n20	2462	Ant1	16.693	30	Pass
NVNT	n40	2422	Ant1	16.073	30	Pass
NVNT	n40	2437	Ant1	15.21	30	Pass
NVNT	n40	2452	Ant1	15.495	30	Pass

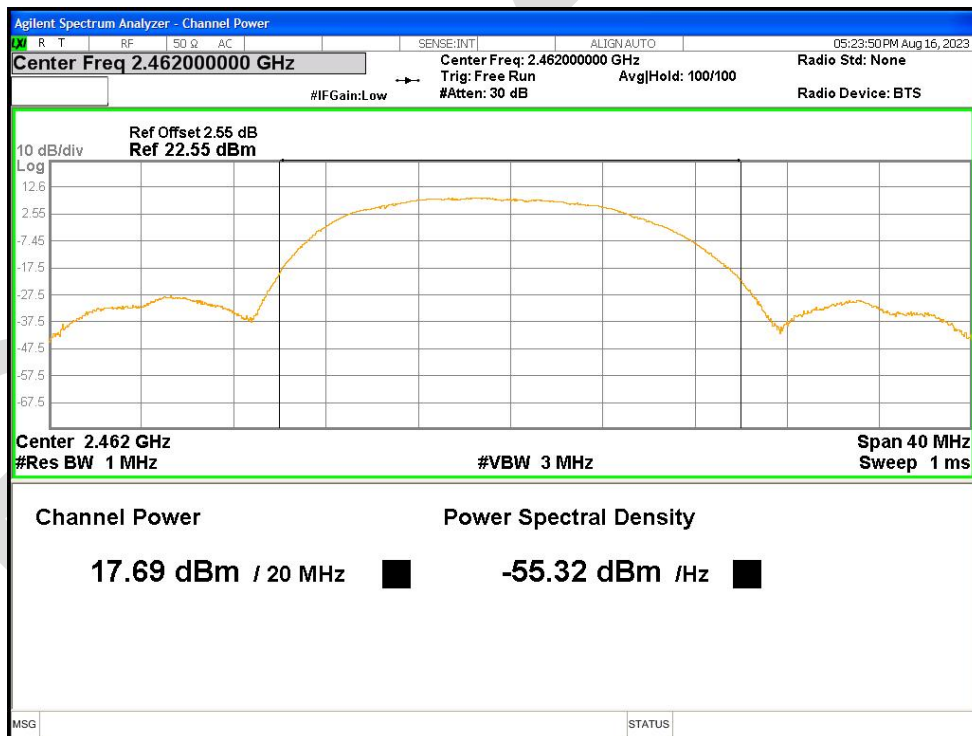
Power NVNT b 2412MHz Ant1



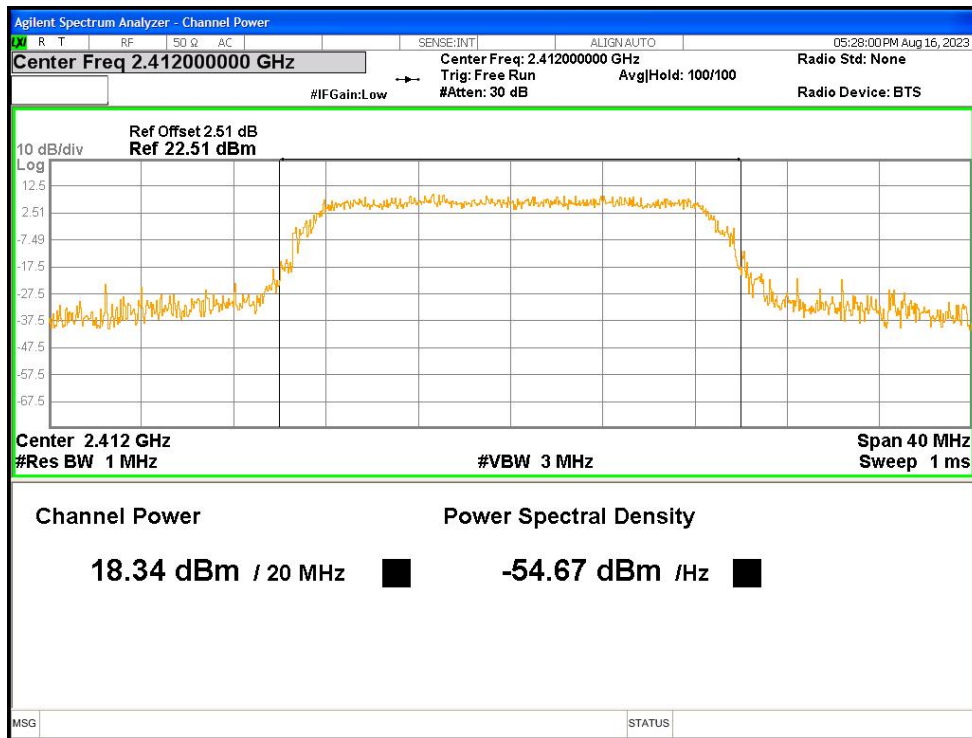
Power NVNT b 2437MHz Ant1



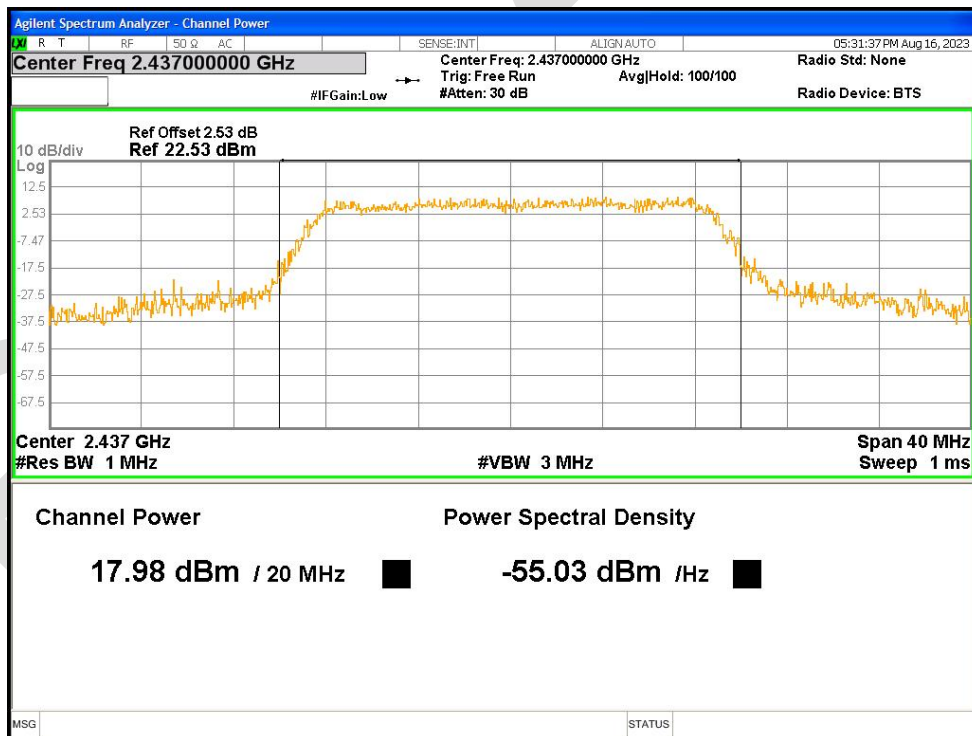
Power NVNT b 2462MHz Ant1



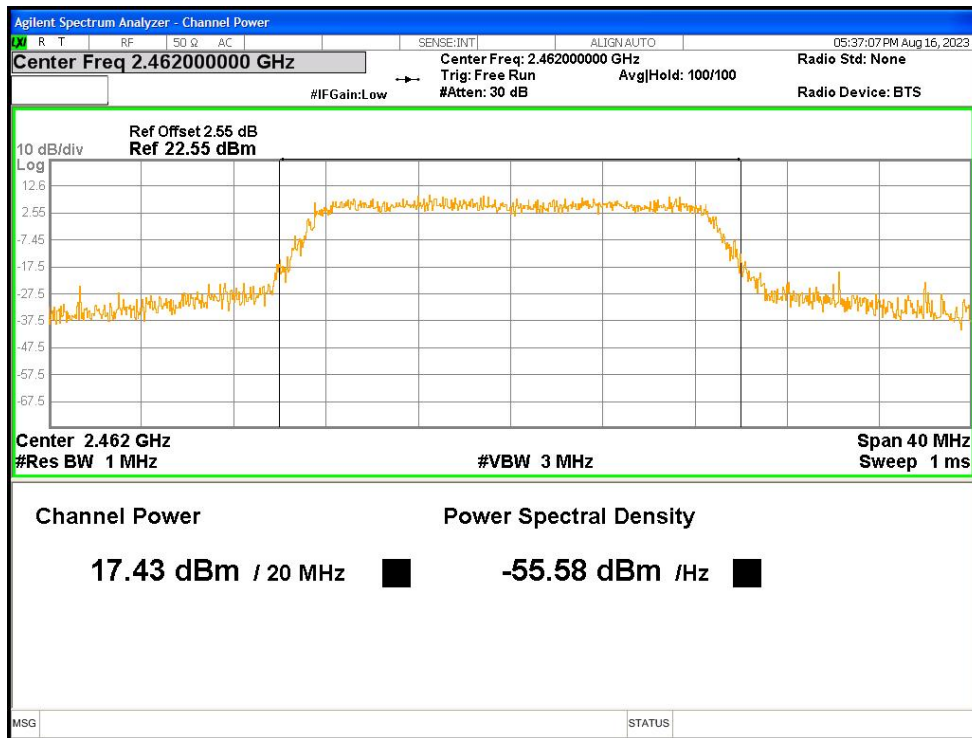
Power NVNT g 2412MHz Ant1



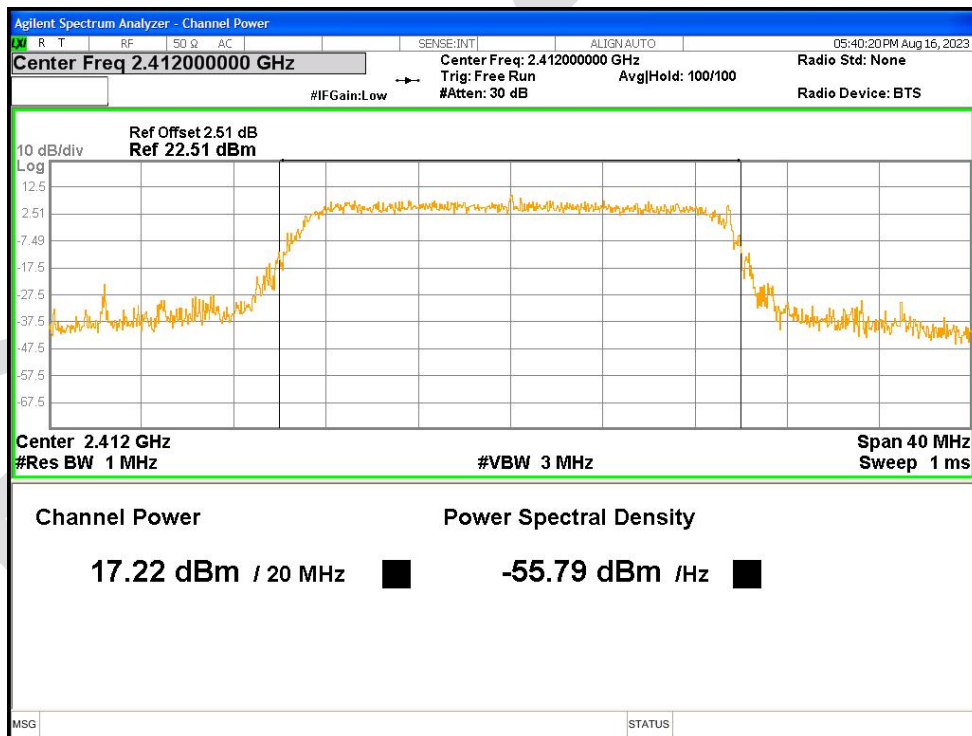
Power NVNT g 2437MHz Ant1



Power NVNT g 2462MHz Ant1



Power NVNT n20 2412MHz Ant1



Power NVNT n20 2437MHz Ant1