

Appendix B: Test Results of Radiated Spurious Emissions

PCB Antenna

Band Edges, 2.31GHz ~ 2.5GHz

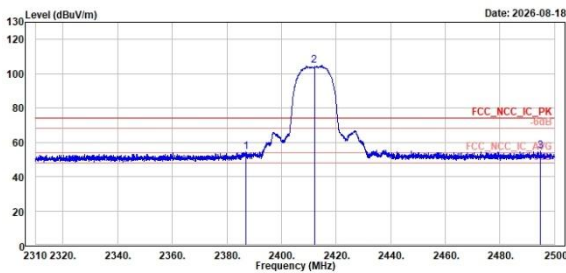
802.11b

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



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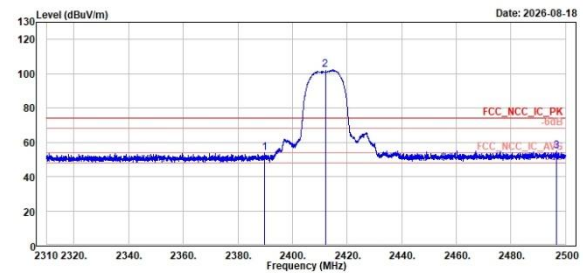


Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : HORIZONTAL
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_b_2412
Power Setting: -12
Plane : E1
Sample : A004358425-003
Test Data : 20260818
VBW : 500Hz
ANT : A003938566-009

	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2386.87	54.58	17.79	36.79	74.00	-19.42		274		257 Peak	HORIZONTAL	
2 *	2412.00	104.72	67.65	36.87	74.00	30.72		274		257 Peak	HORIZONTAL	
3	2494.72	54.73	17.22	37.51	74.00	-19.27		274		257 Peak	HORIZONTAL	



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Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : Vertical
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_b_2412
Power Setting: -12
Plane : E1
Sample : A004358425-003
Test Data : 20260818
VBW : 500Hz
ANT : A003938566-009

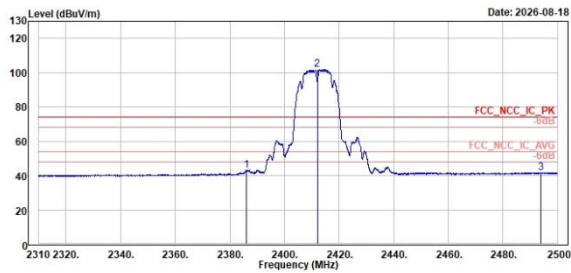
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2389.69	53.79	17.02	36.77	74.00	-20.21		313		360 Peak	Vertical	
2 *	2412.00	102.41	65.54	36.87	74.00	28.41		313		360 Peak	Vertical	
3	2496.54	54.77	17.26	37.51	74.00	-19.23		313		360 Peak	Vertical	

802.11b

Low Channel (Horizontal) Average



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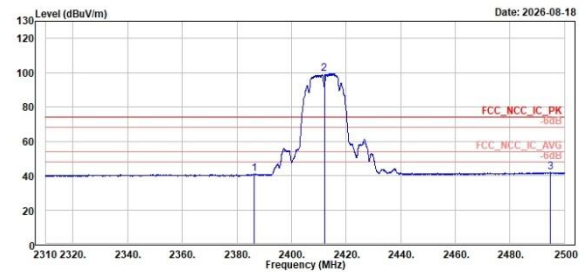
Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : HORIZONTAL
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_b_2412
Power Setting: -12
Plane : E1
Sample : A004358425-003
Test Data : 20260818
VBW : 500Hz
ANT : A003938566-009

	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2385.96	43.09	6.30	36.79	54.00	-10.91		274	257	Average	HORIZONTAL	
2 *	2412.00	101.65	64.78	36.87	54.00	-47.65		274	257	Average	HORIZONTAL	
3	2494.00	41.72	4.21	37.51	54.00	-12.28		274	257	Average	HORIZONTAL	

Low Channel (Vertical) Average



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Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : Vertical
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_b_2412
Power Setting: -12
Plane : E1
Sample : A004358425-003
Test Data : 20260817
VBW : 500Hz
ANT : A003938566-009

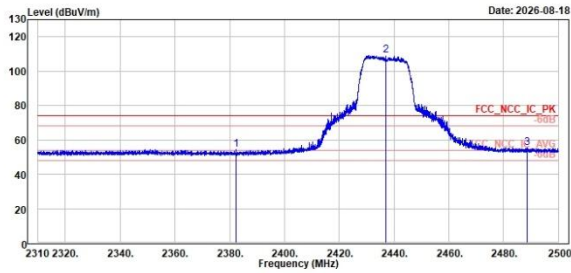
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2386.42	41.01	4.22	36.79	54.00	-12.99		313	360	Average	Vertical	
2 *	2412.00	99.39	62.52	36.87	54.00	-45.39		313	360	Average	Vertical	
3	2494.91	41.77	4.26	37.51	54.00	-12.23		313	360	Average	Vertical	

802.11g

Middle Channel (Horizontal) Peak



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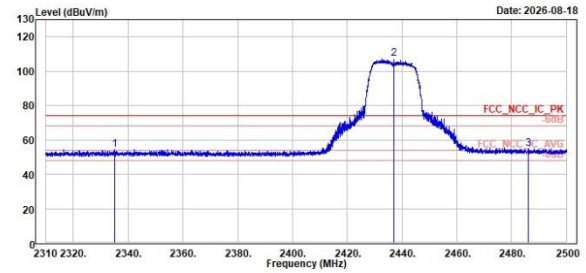


Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : Horizontal
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_g_2437
Power Setting: -11
Plane : E2
Sample : A004358425-003
Test Data : 20260818
VBW : 1kHz
ANT : A003938566-009

	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2382.28	54.53	17.72	36.81	74.00	-19.47	268	292 Peak	Horizontal	
2 *	2437.00	109.00	71.00	37.20	74.00	35.00	268	292 Peak	Horizontal	
3	2488.45	55.21	17.72	37.49	74.00	-18.79	268	292 Peak	Horizontal	



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Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : Vertical
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_g_2437
Power Setting: -11
Plane : E2
Sample : A004358425-003
Test Data : 20260818
VBW : 1kHz
ANT : A003938566-009

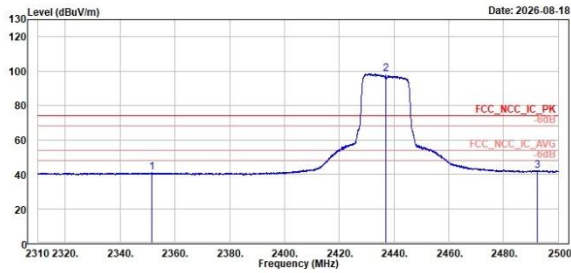
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2335.00	54.62	17.81	36.81	74.00	-19.38	307	360 Peak	Vertical	
2 *	2437.00	107.02	69.02	37.20	74.00	33.02	307	360 Peak	Vertical	
3	2486.17	54.95	17.47	37.48	74.00	-19.05	307	360 Peak	Vertical	

802.11g

Middle Channel (Horizontal) Average



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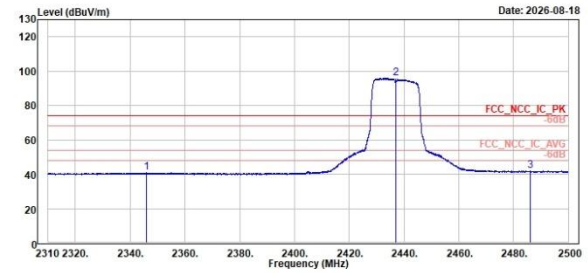
Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : Horizontal
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_g_2437
Power Setting: -11
Plane : E2
Sample : A004358425-003
Test Data : 20260818
VBW : 1kHz
ANT : A003938566-009

	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2351.65	40.79	3.83	36.96	54.00	-13.21	268	292 Average	Horizontal	
2 *	2437.00	98.52	61.32	37.20	54.00	44.52	268	292 Average	Horizontal	
3	2492.17	42.16	4.66	37.50	54.00	-11.84	268	292 Average	Horizontal	

Middle Channel (Vertical) Average



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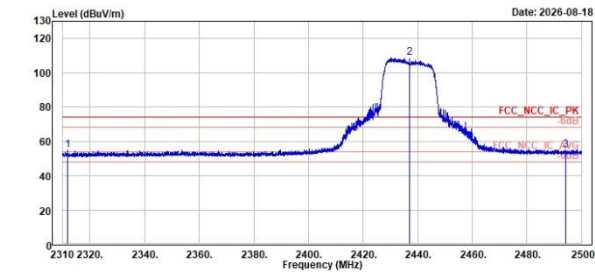


Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : Vertical
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_g_2437
Power Setting: -11
Plane : E2
Sample : A004358425-003
Test Data : 20260818
VBW : 1kHz
ANT : A003938566-009

	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2345.87	40.88	3.95	36.93	54.00	-13.12	307	360 Average	Vertical	
2 *	2437.00	96.01	58.81	37.20	54.00	42.01	307	360 Average	Vertical	
3	2486.02	42.01	4.53	37.48	54.00	-11.99	307	360 Average	Vertical	

802.11n HT20

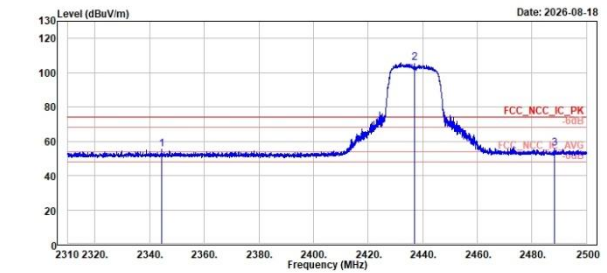
Middle Channel (Horizontal) Peak



Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : Horizontal
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_n20_2437
Power Setting: -12
Plane : E2
Sample : A004358425-003
Test Data : 20260818
VBW : 1kHz
ANT : A003938566-009

	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2311.75	54.78	18.23	36.55	74.00	-19.22		245	294	Peak	Horizontal	
2 *	2437.00	108.69	71.49	37.20	74.00	34.69		245	294	Peak	Horizontal	
3	2494.30	55.07	17.56	37.51	74.00	-18.93		245	294	Peak	Horizontal	

Middle Channel (Vertical) Peak



Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : Vertical
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_n20_2437
Power Setting: -12
Plane : E2
Sample : A004358425-003
Test Data : 20260818
VBW : 1kHz
ANT : A003938566-009

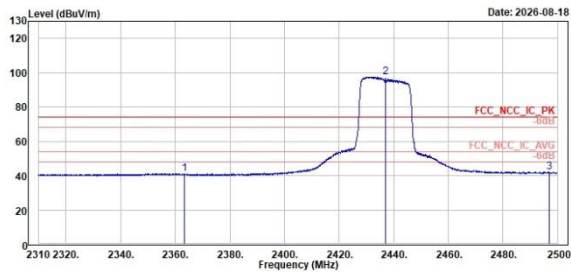
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2344.31	55.52	18.62	36.90	74.00	-18.48		307	360	Peak	Vertical	
2 *	2437.00	105.67	68.67	37.20	74.00	31.67		307	360	Peak	Vertical	
3	2488.30	55.96	18.47	37.49	74.00	-18.04		307	360	Peak	Vertical	

802.11n HT20

Middle Channel (Horizontal) Average



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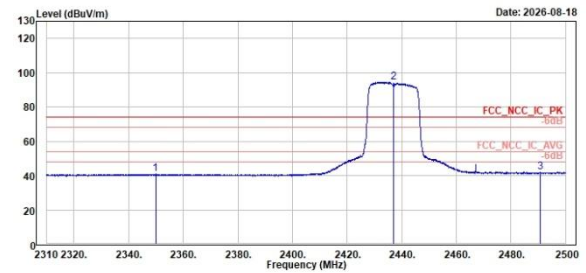


Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : Horizontal
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_n20_2437
Power Setting: -12
Plane : E2
Sample : A004358425-003
Test Data : 20260818
VBW : 1kHz
ANT : A003938566-009

	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2363.31	41.13	4.23	36.90	54.00	-12.87	245	294	Average	Horizontal		
2 *	2437.00	97.57	60.37	37.20	54.00	-43.57	245	294	Average	Horizontal		
3	2496.96	42.05	4.54	37.51	54.00	-11.95	245	294	Average	Horizontal		



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Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : Vertical
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_n20_2437
Power Setting: -12
Plane : E2
Sample : A004358425-003
Test Data : 20260818
VBW : 1kHz
ANT : A003938566-009

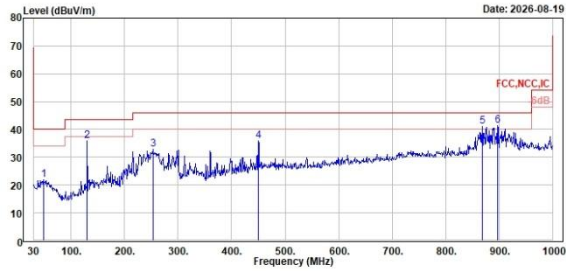
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2349.86	40.83	3.86	36.97	54.00	-13.17	307	360	Average	Vertical		
2 *	2437.00	94.61	57.41	37.20	54.00	-40.61	307	360	Average	Vertical		
3	2496.73	41.94	4.44	37.50	54.00	-12.06	307	360	Average	Vertical		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

Horizontal



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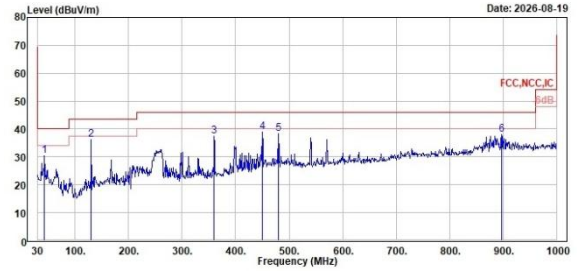
Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : Horizontal
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_Mode
Plane : E1
Sample : A004358425-003
Test Data : 20260818
ANT : A003938566-009

	Freq MHz	Read			Limit Line	Over Limit	APos cm	TPos deg	Remark	Pol/Phase	Note
		Level dBUV/m	Level dBuV	Factor dB/m							
1	48.43	21.98	28.99	-7.01	40.00	-18.02	200		179 Peak	Horizontal	
2	129.91	35.96	45.10	-9.14	43.50	-7.54	200		224 Peak	Horizontal	
3	253.10	32.71	40.46	-7.75	46.00	-13.29	100		74 Peak	Horizontal	
4	450.01	35.84	38.77	-2.93	46.00	-10.16	200		233 Peak	Horizontal	
5	868.00	40.99	36.85	4.14	46.00	-5.01	100		136 Peak	Horizontal	
6	897.18	41.29	36.61	4.68	46.00	-4.71	100		136 Peak	Horizontal	

Vertical



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Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : Vertical
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_Mode
Plane : E1
Sample : A004358425-003
Test Data : 20260818
ANT : A003938566-009

	Freq MHz	Read			Limit Line	Over Limit	APos cm	TPos deg	Remark	Pol/Phase	Note
		Level dBUV/m	Level dBuV	Factor dB/m							
1	42.61	30.44	37.91	-7.47	40.00	-9.56	100		150 Peak	Vertical	
2	129.91	36.06	45.20	-9.14	43.50	-7.44	100		19 Peak	Vertical	
3	359.80	37.38	42.35	-4.97	46.00	-8.62	183		360 Peak	Vertical	
4	450.01	38.94	41.87	-2.93	46.00	-7.06	118		360 Peak	Vertical	
5	480.00	38.43	41.09	-2.66	46.00	-7.57	154		360 Peak	Vertical	
6	897.18	37.92	33.24	4.68	46.00	-8.00	100		155 Peak	Vertical	

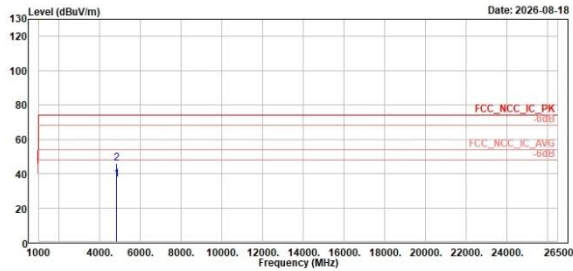
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

802.11b

Low Channel (Horizontal)



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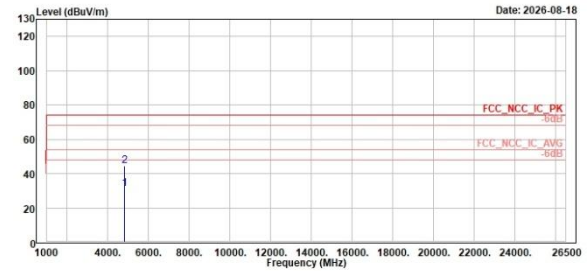
Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : Horizontal
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_b_2412
Power Setting: -12
Plane : E1
Sample : A004358425-003
Test Data : 20260818
VBW : 500Hz
ANT : A003938566-009

	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4824.00	36.42	28.34	8.08	54.00	-17.58	100	55	Average	Horizontal		
2	4824.00	46.08	38.00	8.08	74.00	-27.92	100	55	Peak	Horizontal		

Low Channel (Vertical)



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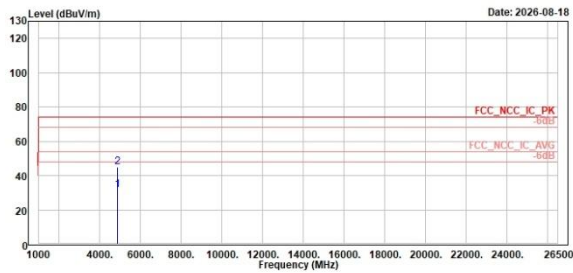


Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : Vertical
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_b_2412
Power Setting: -12
Plane : E1
Sample : A004358425-003
Test Data : 20260818
VBW : 500Hz
ANT : A003938566-009

	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4824.00	30.92	22.84	8.08	54.00	-23.08	300	329	Average	Vertical		
2	4824.00	44.43	36.35	8.08	74.00	-29.57	300	329	Peak	Vertical		

802.11g

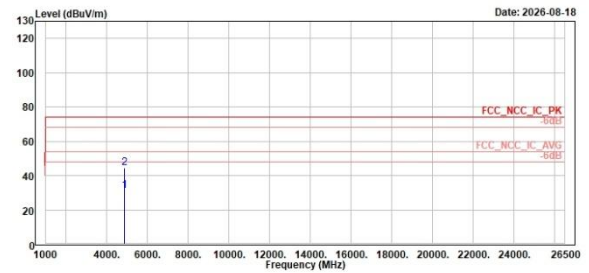
Middle Channel (Horizontal)



Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : Horizontal
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_g_2437
Power Setting: -11
Plane : E2
Sample : A004358425-003
Test Data : 20260818
VBW : 1kHz
ANT : A003938566-009

	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	31.71	23.53	8.18	54.00	-22.29	182	360	Average	Horizontal	
2	4874.00	45.11	36.93	8.18	74.00	-28.89	182	360	Peak	Horizontal	

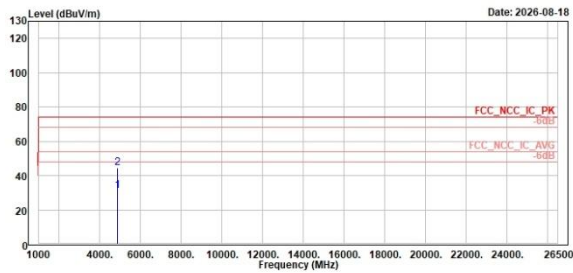
Middle Channel (Vertical)



Site : 3m_Semi-Anechoic_Chamber(966_C)
Condition : Vertical
Test Engineer: Chuan
Order : 48308150
Test Rating : 3.3Vdc
Tmp/Hum : 24.5~26.8°C/54~59%
Mode : TX_g_2437
Power Setting: -11
Plane : E2
Sample : A004358425-003
Test Data : 20260818
VBW : 1kHz
ANT : A003938566-009

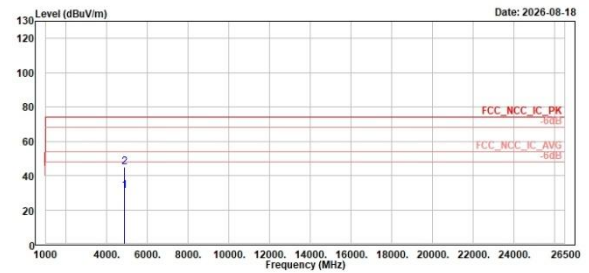
	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	31.32	23.14	8.18	54.00	-22.68	300	263	Average	Vertical	
2	4874.00	44.67	36.49	8.18	74.00	-29.33	300	263	Peak	Vertical	

802.11n HT20
Middle Channel (Horizontal)

 TÜV Rheinland Taiwan Ltd.
 No. 438-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
 Tel: +886-2172-1000 Fax: +886-2172-1322

 Site : 3m_Semi-Anechoic_Chamber(966_C)
 Condition : Horizontal
 Test Engineer: Chuan
 Order : 48308150
 Test Rating : 3.3Vdc
 Temp/Hum : 24.5~26.8°C/54~59%
 Mode : TX_n20_2437
 Power Setting: -12
 Plane : E2
 Sample : A004358425-003
 Test Data : 20260818
 VBW : 1kHz
 ANT : A003938566-009

	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	31.12	22.94	8.18	54.00	-22.88	100	55	Average	Horizontal	
2	4874.00	44.65	36.47	8.18	74.00	-29.35	100	55	Peak	Horizontal	

Middle Channel (Vertical)

 TÜV Rheinland Taiwan Ltd.
 No. 438-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
 Tel: +886-2172-1000 Fax: +886-2172-1322

 Site : 3m_Semi-Anechoic_Chamber(966_C)
 Condition : Vertical
 Test Engineer: Chuan
 Order : 48308150
 Test Rating : 3.3Vdc
 Temp/Hum : 24.5~26.8°C/54~59%
 Mode : TX_n20_2437
 Power Setting: -12
 Plane : E2
 Sample : A004358425-003
 Test Data : 20260818
 VBW : 1kHz
 ANT : A003938566-009

	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	31.14	22.96	8.18	54.00	-22.86	200	0	Average	Vertical	
2	4874.00	44.76	36.58	8.18	74.00	-29.24	200	0	Peak	Vertical	