

## Appendix A: Test Results of Radiated Emissions

<Adapter Mode>

Band Edges, 2.31GHz ~ 2.9GHz & 4.5GHz ~ 5.15GHz

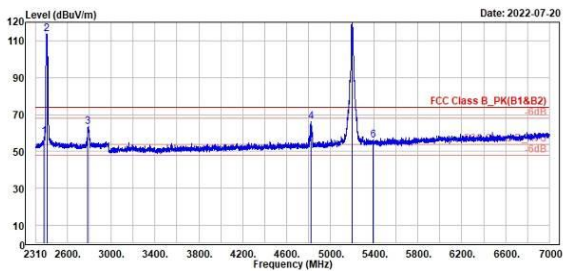
**WLAN\_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz**

**(Horizontal) Peak**

**(Vertical) Peak**



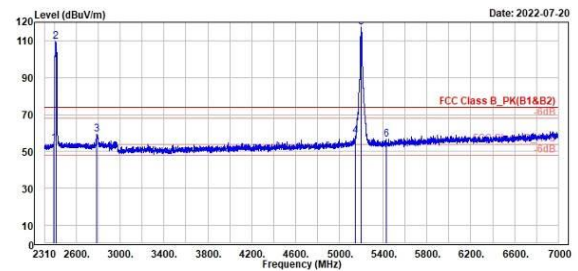
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	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note	
1	2385.87	57.80	20.24	37.56	74.00	-16.20	130	318 Peak	Horizontal
2 *	2412.00	113.44	75.79	37.65	74.00	39.44	130	318 Peak	Horizontal
3	2787.55	63.21	25.02	38.19	74.00	-10.79	130	318 Peak	Horizontal
4	4828.44	66.09	24.04	42.05	74.00	-7.91	111	53 Peak	Horizontal
5 *	5200.00	121.54	70.50	43.04	74.00	47.54	111	53 Peak	Horizontal
6	5389.52	56.22	13.06	43.16	74.00	-17.78	111	53 Peak	Horizontal

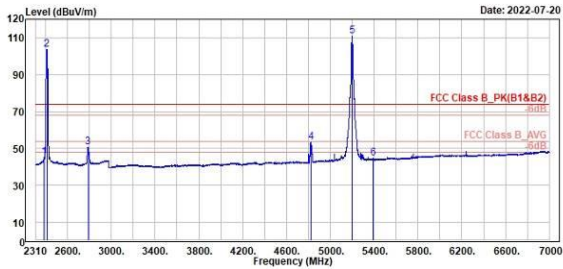


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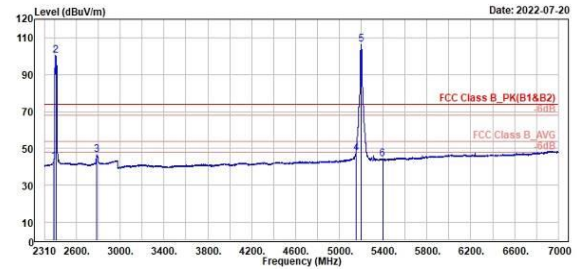


	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note	
1	2389.65	54.39	16.61	37.58	74.00	-19.61	389	360 Peak	Vertical
2 *	2412.00	109.49	71.84	37.65	74.00	35.49	389	360 Peak <td>Vertical</td>	Vertical
3	2786.48	59.12	20.93	38.19	74.00	-14.88	389	360 Peak <td>Vertical</td>	Vertical
4	5149.26	58.51	15.61	42.90	74.00	-15.49	111	8 Peak <td>Vertical</td>	Vertical
5 *	5200.00	117.33	74.29	43.04	74.00	43.33	111	8 Peak <td>Vertical</td>	Vertical
6	5430.52	56.67	13.43	43.24	74.00	-17.33	111	8 Peak <td>Vertical</td>	Vertical

**WLAN\_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz**
**(Horizontal) Average**
**(Vertical) Average**

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1	2	3	4	5	6				
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2385.99	45.34	7.78	37.56	54.00	-8.66	130	318	Average Horizontal
2 *	2412.00	103.73	66.08	37.65	54.00	49.73	130	318	Average Horizontal
3 !	2787.66	50.62	12.43	38.19	54.00	-3.38	130	318	Average Horizontal
4 !	4825.36	53.40	11.33	42.07	54.00	-0.60	111	53	Average Horizontal
5 *	5200.00	111.04	60.00	43.04	54.00	57.04	111	53	Average Horizontal
6	5391.98	44.67	1.50	43.17	54.00	-9.33	111	53	Average Horizontal


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1	2	3	4	5	6				
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2389.77	42.72	5.14	37.58	54.00	-11.28	389	360	Average Vertical
2 *	2412.00	100.37	62.72	37.65	54.00	46.37	389	360	Average Vertical
3	2786.37	46.37	8.18	38.19	54.00	-7.63	389	360	Average Vertical
4	5150.00	47.27	4.37	42.90	54.00	-6.73	111	8	Average Vertical
5 *	5200.00	106.47	63.43	43.04	54.00	52.47	111	8	Average Vertical
6	5395.26	44.25	1.06	43.19	54.00	-9.75	111	8	Average Vertical

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

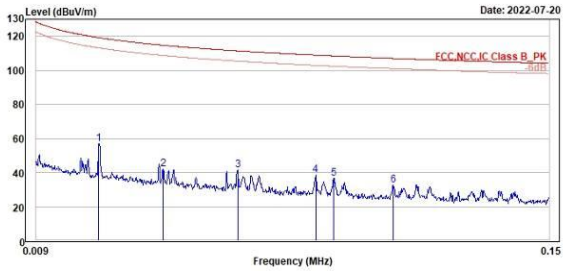
WLAN\_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz

9kHz~150kHz (Open)

150kHz~30MHz (Open)



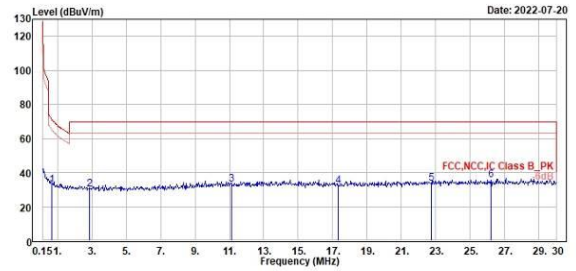
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.03	56.90	37.72	19.18	119.18	-62.28	100	357 QP	Open
2	0.04	41.94	22.57	19.37	114.73	-72.79	100	292 QP	Open
3	0.06	41.45	22.46	18.99	111.41	-69.96	100	258 QP	Open
4	0.09	38.72	20.20	18.52	108.92	-70.20	100	258 QP	Open
5	0.09	36.61	18.20	18.41	108.44	-71.83	100	276 QP	Open
6	0.11	32.81	14.57	18.24	107.00	-74.19	100	318 QP	Open



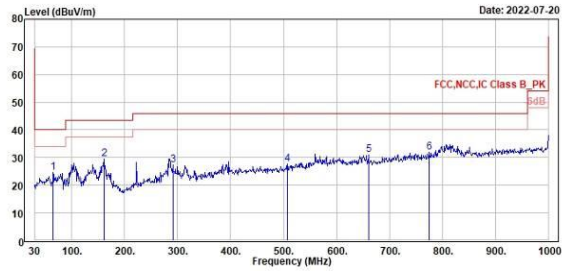
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.66	32.63	13.59	19.04	71.25	-38.62	100	157 QP	Open
2	2.87	29.94	10.43	19.51	69.50	-39.56	100	360 QP	Open
3	11.10	33.31	11.73	21.58	69.50	-36.19	100	69 QP	Open
4	17.31	32.19	10.18	22.01	69.50	-37.31	100	71 QP	Open
5	22.75	33.57	11.25	22.32	69.50	-35.93	100	10 QP	Open
6	26.21	35.74	13.26	22.48	69.50	-33.76	100	54 QP	Open

**Spurious Emissions, Tx Mode, 30MHz ~ 1GHz**
**WLAN\_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz**
**Horizontal**
**Vertical**

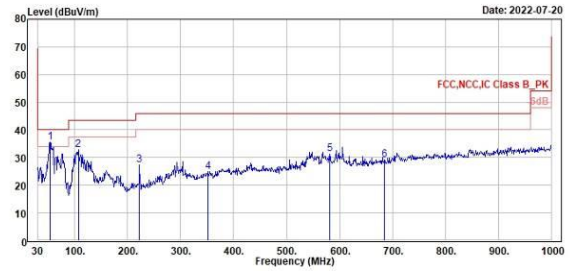

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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	64.92	24.56	32.47	-7.91	48.00	-15.44	100	62 QP	Horizontal
2	169.95	29.54	35.49	-5.95	43.50	-13.96	200	242 QP	Horizontal
3	298.93	27.44	32.47	-5.03	46.00	-18.56	100	62 QP	Horizontal
4	587.24	27.88	29.47	-1.67	46.00	-18.20	200	346 QP	Horizontal
5	669.59	30.89	29.95	0.94	46.00	-15.11	100	356 QP	Horizontal
6	774.96	31.99	28.98	3.01	46.00	-14.01	100	325 QP	Horizontal



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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	53.28	35.62	42.00	-6.38	48.00	-4.38	100	39 QP	Vertical
2	106.63	32.82	42.86	-10.04	43.50	-10.68	100	58 QP	Vertical
3	222.06	27.33	35.22	-7.89	46.00	-18.67	100	43 QP	Vertical
4	352.04	24.82	28.68	-3.86	46.00	-21.18	198	360 QP	Vertical
5	580.96	31.37	31.74	-0.37	46.00	-14.63	100	2 QP	Vertical
6	684.75	29.18	27.81	1.37	46.00	-16.82	100	160 QP	Vertical

Spurious Emissions, Tx Mode, 1GHz ~ 40GHz

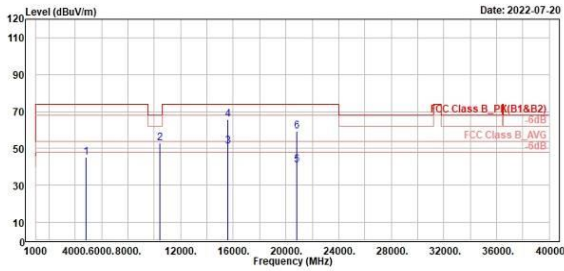
WLAN\_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz

(Horizontal) Peak

(Vertical) Peak



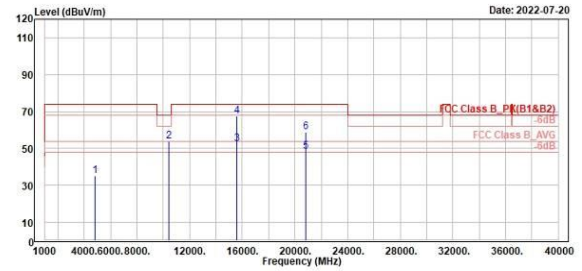
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4824.00	45.15	54.96	-9.81	74.00	-28.85	100	334 Peak	Horizontal
2	10400.00	52.99	56.41	-3.42	68.20	-15.21	200	310 Peak	Horizontal
3	15600.00	51.12	47.50	3.62	54.00	-2.88	100	36 Average	Horizontal
4	15600.00	65.82	62.20	3.62	74.00	-8.18	100	36 Peak	Horizontal
5	20800.00	41.25	41.25	0.00	54.00	-12.75	200	343 Average	Horizontal
6	20800.00	59.37	59.37	0.00	74.00	-14.63	200	343 Peak	Horizontal



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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4824.00	35.15	44.96	-9.81	74.00	-38.85	296	360 Peak	Vertical
2	10400.00	53.81	57.23	-3.42	68.20	-14.39	125	360 Peak	Vertical
3	15600.00	52.44	48.82	3.62	54.00	-1.56	217	360 Average	Vertical
4	15600.00	67.57	63.95	3.62	74.00	-6.43	217	360 Peak	Vertical
5	20800.00	48.23	48.23	0.00	54.00	-5.77	266	5 Average	Vertical
6	20800.00	58.89	58.89	0.00	74.00	-15.11	266	5 Peak	Vertical

Mains Conducted Emission, 150kHz ~ 30MHz

Worst Band

(Line)

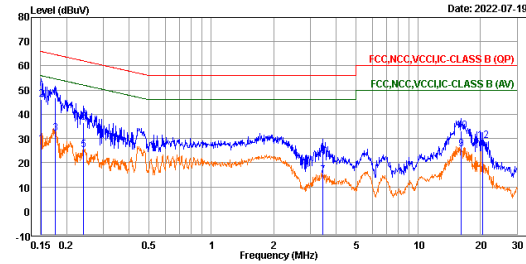
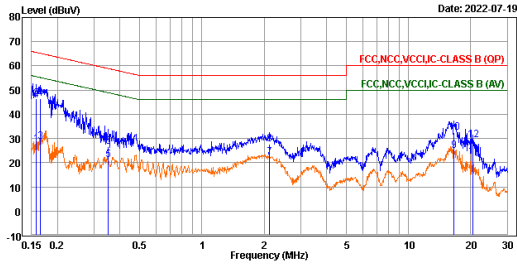
(Neutral)



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Trace: 1

Line	Freq	Level	Read Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.16	27.80	18.19	9.61	55.54	-27.74	Average	line1	
2	0.16	46.20	36.69	9.61	65.54	-19.24	QP	line1	
3	0.17	28.75	19.14	9.61	55.17	-26.42	Average	line1	
4	0.17	46.56	36.95	9.61	65.17	-18.61	QP	line1	
5	0.35	21.30	11.68	9.62	48.92	-27.62	Average	line1	
6	0.35	26.73	17.11	9.62	58.92	-32.19	QP	line1	
7	2.13	22.24	12.59	9.65	46.00	-23.76	Average	line1	
8	2.13	27.53	17.88	9.65	56.00	-28.47	QP	line1	
9	16.58	24.92	15.20	9.72	50.00	-25.08	Average	line1	
10	16.58	32.43	22.71	9.72	60.00	-27.57	QP	line1	
11	20.54	22.64	12.93	9.71	50.00	-27.36	Average	line1	
12	20.54	29.38	19.67	9.71	60.00	-30.62	QP	line1	

Trace: 1

Line	Freq	Level	Read Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.15	27.72	18.13	9.59	55.96	-28.24	Average	neutral	
2	0.15	46.13	36.54	9.59	65.96	-19.83	QP	neutral	
3	0.18	32.22	22.63	9.59	54.63	-22.41	Average	neutral	
4	0.18	46.74	37.15	9.59	64.63	-17.89	QP	neutral	
5	0.24	25.28	15.69	9.59	52.03	-26.75	Average	neutral	
6	0.24	36.51	26.92	9.59	62.03	-25.52	QP	neutral	
7	3.45	14.72	5.06	9.66	46.00	-31.28	Average	neutral	
8	3.45	22.71	13.05	9.66	56.00	-33.29	QP	neutral	
9	16.09	25.53	15.75	9.78	50.00	-24.47	Average	neutral	
10	16.09	33.06	23.28	9.78	60.00	-26.94	QP	neutral	
11	20.54	23.51	13.71	9.80	50.00	-26.49	Average	neutral	
12	20.54	29.17	19.37	9.80	60.00	-30.83	QP	neutral	

<POE Mode>

Band Edges, 2.31GHz ~ 2.9GHz & 4.5GHz ~ 5.15GHz

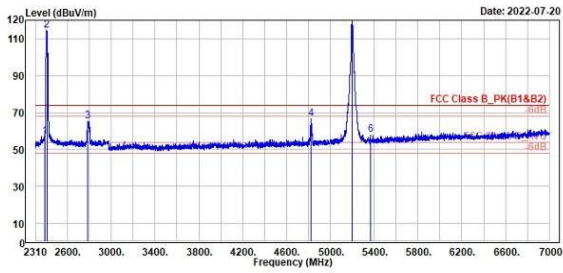
WLAN\_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz

(Horizontal) Peak

(Vertical) Peak



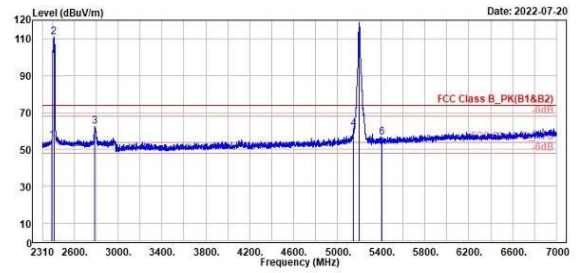
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1	2	3	4	5	6					
Read Level	Read Level	Read Level	Read Level	Read Level	Read Level					
Factor	Factor	Factor	Factor	Factor	Factor					
Line	Line	Line	Line	Line	Line					
Limit	Limit	Limit	Limit	Limit	Limit					
Over	Over	Over	Over	Over	Over					
APos	APos	APos	APos	APos	APos					
TPos	TPos	TPos	TPos	TPos	TPos					
Remark	Remark	Remark	Remark	Remark	Remark					
Pol/Phase	Pol/Phase	Pol/Phase	Pol/Phase	Pol/Phase	Pol/Phase					
Note	Note	Note	Note	Note	Note					
2389.77	57.21	19.63	37.58	74.00	-16.79	124	320	Peak	Horizontal	
2412.00	114.35	76.79	37.65	74.00	40.35	124	320	Peak	Horizontal	
2787.43	65.35	27.16	38.19	74.00	-8.65	124	320	Peak	Horizontal	
4821.26	66.04	24.79	42.05	74.00	-7.16	100	300	Peak	Horizontal	
5200.00	121.92	78.88	43.04	74.00	47.92	100	300	Peak	Horizontal	
5368.20	58.01	14.96	43.05	74.00	-15.99	100	300	Peak	Horizontal	

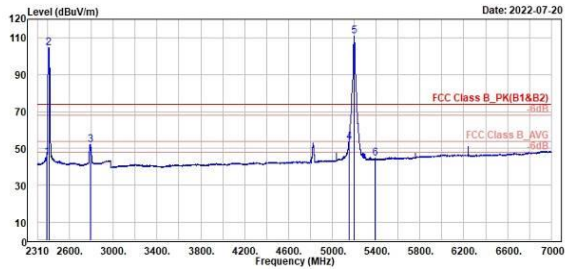


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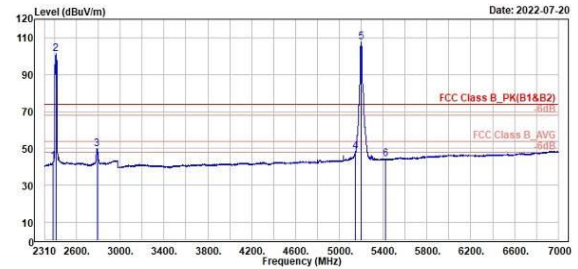


1	2	3	4	5	6					
Read Level	Read Level	Read Level	Read Level	Read Level	Read Level					
Factor	Factor	Factor	Factor	Factor	Factor					
Line	Line	Line	Line	Line	Line					
Limit	Limit	Limit	Limit	Limit	Limit					
Over	Over	Over	Over	Over	Over					
APos	APos	APos	APos	APos	APos					
TPos	TPos	TPos	TPos	TPos	TPos					
Remark	Remark	Remark	Remark	Remark	Remark					
Pol/Phase	Pol/Phase	Pol/Phase	Pol/Phase	Pol/Phase	Pol/Phase					
Note	Note	Note	Note	Note	Note					
2390.00	54.79	17.21	37.58	74.00	-19.21	383	335	Peak	Vertical	
2412.00	111.08	73.43	37.65	74.00	37.08	383	335	Peak	Vertical	
2787.31	62.46	24.27	38.19	74.00	-11.54	383	335	Peak	Vertical	
5148.44	60.96	18.07	42.89	74.00	-13.04	324	18	Peak	Vertical	
5200.00	118.41	75.37	43.04	74.00	44.41	324	18	Peak	Vertical	
5406.74	56.70	13.48	43.22	74.00	-17.30	324	18	Peak	Vertical	

**WLAN\_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz**
**(Horizontal) Average**
**(Vertical) Average**

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1	2	3	4	5	6					
Read Level	Read Level	Read Level	Read Level	Read Level	Read Level					
Factor	Factor	Factor	Factor	Factor	Factor					
Limit	Limit	Limit	Limit	Limit	Limit					
Over	Over	Over	Over	Over	Over					
APos	APos	APos	APos	APos	APos					
TPos	TPos	TPos	TPos	TPos	TPos					
Remark	Remark	Remark	Remark	Remark	Remark					
Pol/Phase	Pol/Phase	Pol/Phase	Pol/Phase	Pol/Phase	Pol/Phase					
Note	Note	Note	Note	Note	Note					
2389.53	45.32	7.74	37.58	54.00	-8.68	124	320	Average	Horizontal	
2412.00	104.56	66.91	37.65	54.00	50.56	124	320	Average	Horizontal	
2788.96	51.92	13.73	38.19	54.00	-2.08	124	320	Average	Horizontal	
5158.00	53.35	10.45	42.90	54.00	-0.65	100	300	Average	Horizontal	
5200.00	111.03	67.99	43.04	54.00	57.03	100	300	Average	Horizontal	
5391.16	44.86	1.70	43.16	54.00	-9.14	100	300	Average	Horizontal	


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1	2	3	4	5	6					
Read Level	Read Level	Read Level	Read Level	Read Level	Read Level					
Factor	Factor	Factor	Factor	Factor	Factor					
Limit	Limit	Limit	Limit	Limit	Limit					
Over	Over	Over	Over	Over	Over					
APos	APos	APos	APos	APos	APos					
TPos	TPos	TPos	TPos	TPos	TPos					
Remark	Remark	Remark	Remark	Remark	Remark					
Pol/Phase	Pol/Phase	Pol/Phase	Pol/Phase	Pol/Phase	Pol/Phase					
Note	Note	Note	Note	Note	Note					
2388.35	43.02	5.45	37.57	54.00	-10.98	383	335	Average	Vertical	
2412.00	101.13	63.48	37.65	54.00	47.13	383	335	Average	Vertical	
2787.66	49.56	11.37	38.19	54.00	-4.44	383	335	Average	Vertical	
5149.26	48.15	5.25	42.90	54.00	-5.85	324	18	Average	Vertical	
5200.00	107.07	64.03	43.04	54.00	53.07	324	18	Average	Vertical	
5421.50	44.48	1.25	43.23	54.00	-9.52	324	18	Average	Vertical	



Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

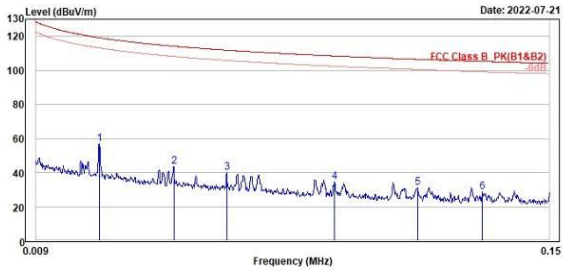
WLAN\_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz

9kHz~150kHz (Open)

150kHz~30MHz (Open)



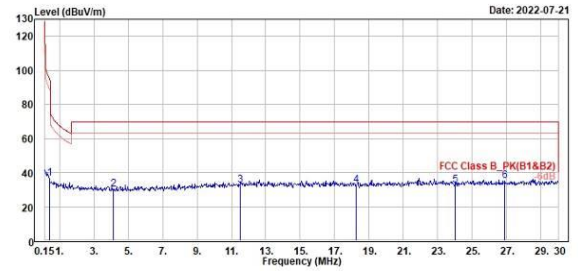
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.03	56.74	37.55	19.19	119.13	-62.39	100	216 QP	Open
2	0.05	43.61	24.27	19.34	114.16	-70.55	100	268 QP	Open
3	0.06	39.91	20.85	19.06	111.82	-71.91	100	276 QP	Open
4	0.09	34.66	16.25	18.41	108.41	-73.75	100	360 QP	Open
5	0.11	31.26	12.99	18.27	106.48	-75.22	100	296 QP	Open
6	0.13	28.69	10.36	18.33	105.21	-76.52	100	333 QP	Open



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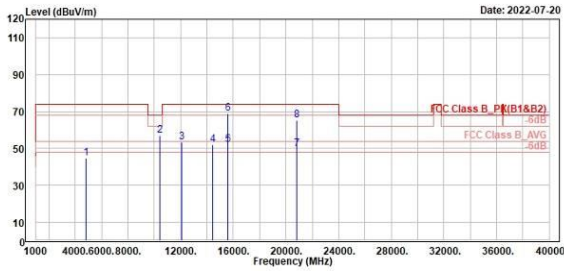


Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.42	36.77	17.02	18.95	95.17	-58.40	100	87 QP	Open
2	4.15	30.20	10.76	19.44	69.50	-39.30	100	9 QP	Open
3	11.49	32.57	10.97	21.60	69.50	-36.93	100	360 QP	Open
4	18.27	32.70	10.70	22.00	69.50	-36.72	100	62 QP	Open
5	24.00	32.66	10.28	22.38	69.50	-36.84	100	252 QP	Open
6	26.90	34.98	12.47	22.51	69.50	-34.52	100	198 QP	Open



**Spurious Emissions, Tx Mode, 1GHz ~ 40GHz**
**WLAN\_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz**
**(Horizontal) Peak**
**(Vertical) Peak**

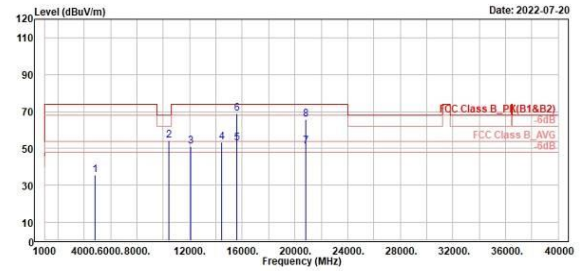

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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4824.00	44.90	54.71	-9.81	74.00	-29.10	100		59 Peak	Horizontal	
2	10400.00	57.23	60.65	-3.42	68.20	-10.97	300		73 Peak	Horizontal	
3	12060.00	53.61	53.77	-0.16	74.00	-20.39	100		71 Peak	Horizontal	
4	14472.00	52.03	49.45	2.58	74.00	-21.97	300		344 Peak	Horizontal	
5	15600.00	51.93	48.31	3.62	54.00	-2.07	100		297 Average	Horizontal	
6	15600.00	68.78	65.16	3.62	74.00	-5.22	100		297 Peak	Horizontal	
7	20800.00	49.94	49.94	0.00	74.00	-24.06	200		351 Average	Horizontal	
8	20800.00	65.20	65.20	0.00	74.00	-8.80	200		351 Peak	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4824.00	35.75	45.56	-9.81	74.00	-38.25	200		10 Peak	Vertical	
2	10400.00	54.25	57.67	-3.42	68.20	-13.95	100		327 Peak	Vertical	
3	12060.00	51.21	51.37	-0.16	74.00	-22.79	238		2 Peak	Vertical	
4	14472.00	53.32	50.74	2.58	74.00	-20.68	157		360 Peak	Vertical	
5	15600.00	52.92	49.30	3.62	54.00	-1.08	227		360 Average	Vertical	
6	15600.00	68.73	65.11	3.62	74.00	-5.27	227		360 Peak	Vertical	
7	20800.00	50.88	50.88	0.00	74.00	-23.12	288		8 Average	Vertical	
8	20800.00	65.92	65.92	0.00	74.00	-8.08	288		8 Peak	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

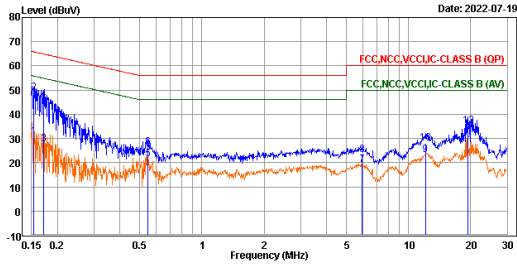
Worst Band

(Line)

(Neutral)



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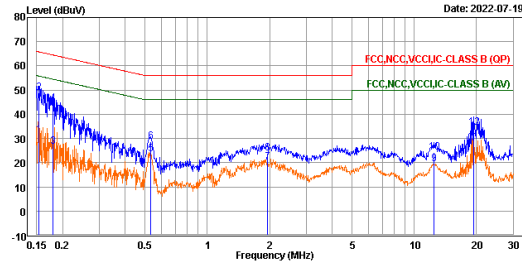


Trace: 1

Line	Freq	Level	Read Level	Factor	Limit	Over	Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB	dB			
1	0.15	30.69	21.08	9.61	55.83	-25.14	Average	line1		
2	0.15	48.95	39.34	9.61	65.85	-16.88	QP	line1		
3	0.17	27.58	17.97	9.61	54.92	-27.34	Average	line1		
4	0.17	46.02	36.41	9.61	64.92	-18.90	QP	line1		
5	0.55	21.37	11.75	9.62	46.00	-24.63	Average	line1		
6	0.55	26.17	16.55	9.62	56.00	-29.83	QP	line1		
7	5.97	19.06	9.37	9.69	50.00	-30.94	Average	line1		
8	5.97	23.31	13.62	9.69	60.00	-36.69	QP	line1		
9	12.05	23.29	13.56	9.73	50.00	-26.71	Average	line1		
10	12.05	27.82	18.09	9.73	60.00	-32.18	QP	line1		
11	19.35	27.30	17.58	9.72	50.00	-22.70	Average	line1		
12	19.35	35.13	25.41	9.72	60.00	-24.57	QP	line1		



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Trace: 1

Line	Freq	Level	Read Level	Factor	Limit	Over	Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB	dB			
1	0.15	31.38	21.79	9.59	55.79	-24.41	Average	neutral		
2	0.15	48.85	39.26	9.59	65.79	-16.94	QP	neutral		
3	0.18	26.67	17.08	9.59	54.51	-27.84	Average	neutral		
4	0.18	44.40	34.81	9.59	64.51	-20.11	QP	neutral		
5	0.53	23.54	13.94	9.60	46.00	-22.46	Average	neutral		
6	0.53	28.56	18.96	9.60	56.00	-27.44	QP	neutral		
7	1.95	20.19	10.56	9.63	46.00	-25.81	Average	neutral		
8	1.95	23.91	14.28	9.63	56.00	-32.09	QP	neutral		
9	12.48	19.59	9.83	9.76	50.00	-30.41	Average	neutral		
10	12.48	24.37	14.61	9.76	60.00	-35.63	QP	neutral		
11	19.35	28.51	18.71	9.80	50.00	-21.49	Average	neutral		
12	19.35	34.48	24.68	9.80	60.00	-25.52	QP	neutral		