

Appendix B: Test Results of Radiated Spurious Emissions & Mains

Radiated Emission Test for PCB Antenna

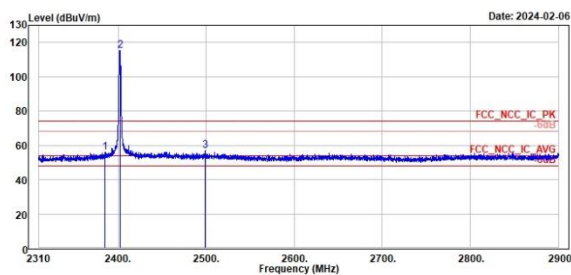
Band Edges, 2.31GHz ~ 2.9GHz

BLE_1M

Low Channel (Horizontal) Peak



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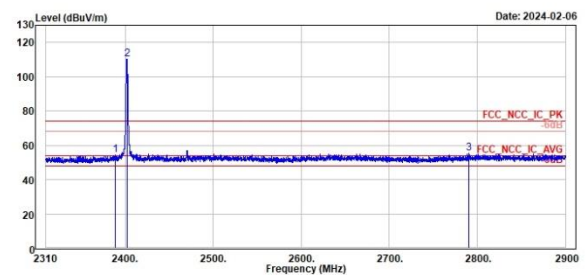


	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
Freq	Level	Level		Line	Limit					
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2384.93	55.91	17.87	38.04	74.00	-18.09	150	199 Peak	Horizontal	
2 *	2402.00	115.29	77.19	38.10	74.00	41.29	150	199 Peak	Horizontal	
3	2499.15	56.93	18.62	38.31	74.00	-17.07	150	199 Peak	Horizontal	

Low Channel (Vertical) Peak



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	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
Freq	Level	Level		Line	Limit					
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2388.59	54.17	16.11	38.06	74.00	-19.83	254	178 Peak	Vertical	
2 *	2402.00	110.16	72.06	38.10	74.00	36.16	254	178 Peak	Vertical	
3	2790.61	55.29	16.81	38.48	74.00	-18.71	254	178 Peak	Vertical	

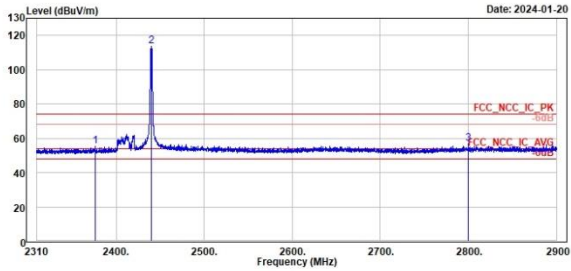
BLE_1M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



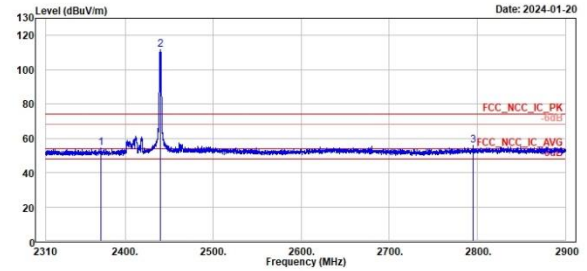
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2376.43	55.14	17.13	38.01	74.00	-18.86		122	205	Peak	Horizontal	
2 *	2440.00	113.75	75.45	38.30	74.00	39.75		122	205	Peak	Horizontal	
3	2799.58	56.62	18.05	38.57	74.00	-17.38		122	205	Peak	Horizontal	



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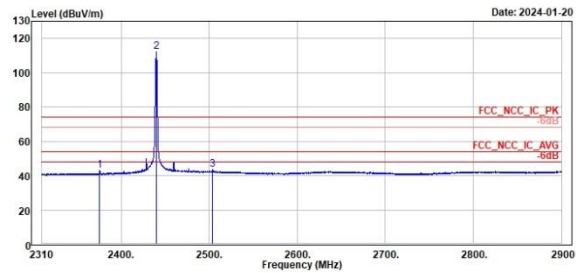
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2372.30	54.51	16.51	38.00	74.00	-19.49		103	174	Peak	Vertical	
2 *	2440.00	111.67	73.37	38.30	74.00	37.67		103	174	Peak	Vertical	
3	2794.98	55.96	17.44	38.52	74.00	-18.04		103	174	Peak	Vertical	

BLE_1M

Middle Channel (Horizontal) Average



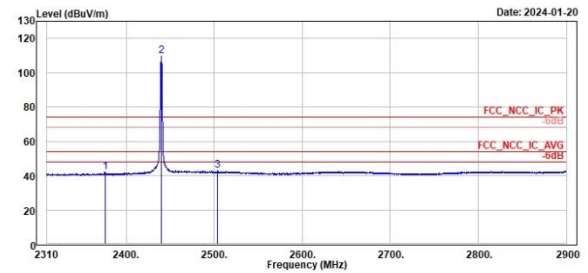
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2375.84	42.90	4.89	38.01	54.00	-11.10	122	205	Average	Horizontal	
2 *	2440.00	112.07	73.77	38.30	54.00	58.07	122	205	Average	Horizontal	
3	2503.99	43.60	5.29	38.31	54.00	-10.40	122	205	Average	Horizontal	



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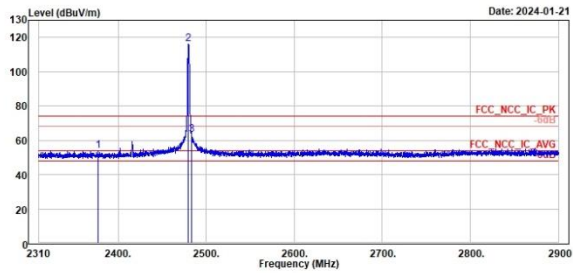
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2376.00	42.19	4.18	38.01	54.00	-11.81	103	174	Average	Vertical	
2 *	2440.00	109.87	71.57	38.30	54.00	55.87	103	174	Average	Vertical	
3	2503.99	42.88	4.57	38.31	54.00	-11.12	103	174	Average	Vertical	

BLE_1M

High Channel (Horizontal) Peak



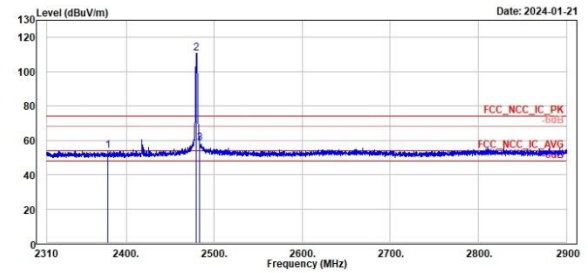
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2377.38	53.97	15.96	38.01	74.00	-20.03	324	91	Peak	Horizontal	
2 *	2480.00	115.94	77.61	38.33	74.00	41.94	324	91	Peak	Horizontal	
3	2483.50	63.26	24.94	38.32	74.00	-10.74	324	91	Peak	Horizontal	



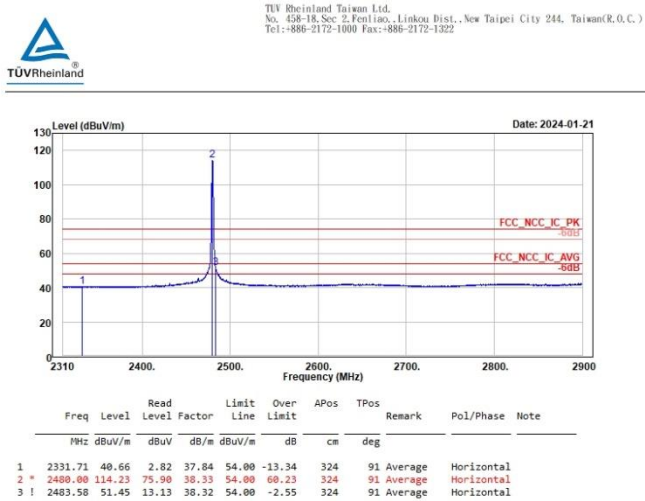
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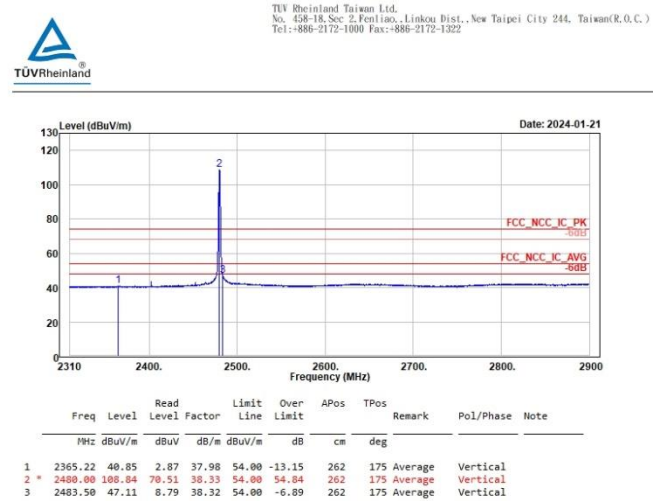
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2379.38	54.03	16.00	38.03	74.00	-19.97	262	175	Peak	Vertical	
2 *	2480.00	110.83	72.50	38.33	74.00	36.83	262	175	Peak	Vertical	
3	2483.58	58.24	19.92	38.32	74.00	-15.76	262	175	Peak	Vertical	

BLE_1M

High Channel (Horizontal) Average



High Channel (Vertical) Average

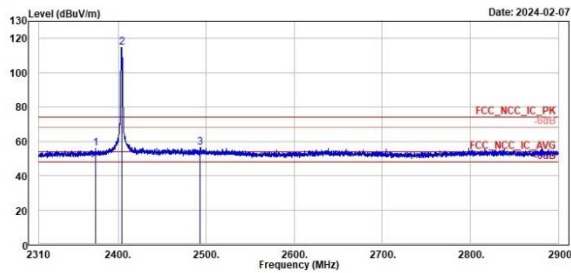


BLE_2M

Low Channel (Horizontal) Peak



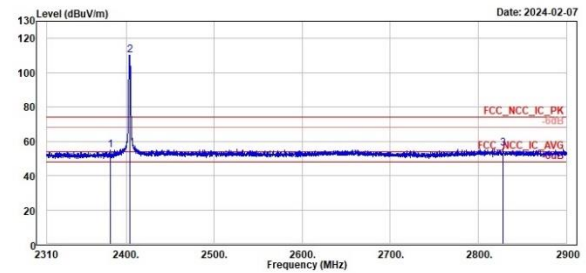
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2374.43	55.88	17.79	38.01	74.00	-18.20	187	201	Peak	Horizontal		
2 *	2404.00	114.87	76.76	38.11	74.00	40.87	187	201	Peak	Horizontal		
3	2493.49	56.42	18.11	38.31	74.00	-17.58	187	201	Peak	Horizontal		



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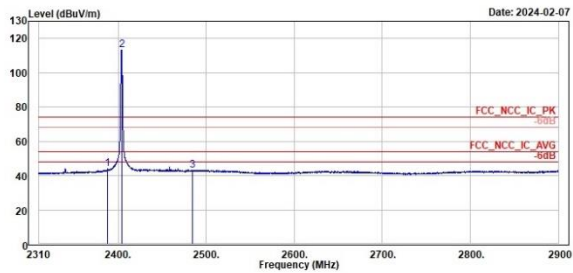
Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2381.74	54.98	16.87	38.03	74.00	-19.10	305	208	Peak	Vertical		
2 *	2404.00	110.87	71.96	38.11	74.00	36.87	305	208	Peak	Vertical		
3	2828.14	55.78	17.07	38.71	74.00	-18.22	305	208	Peak	Vertical		

BLE_2M

Low Channel (Horizontal) Average



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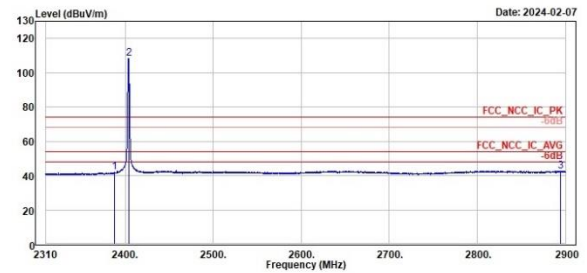


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2388.00	43.86	5.80	38.06	54.00	-10.14	187	201	Average	Horizontal		
2 *	2404.00	113.30	75.19	38.11	54.00	59.30	187	201	Average	Horizontal		
3	2494.05	43.22	4.90	38.32	54.00	-10.78	187	201	Average	Horizontal		

Low Channel (Vertical) Average



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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	2387.64	41.88	3.82	38.06	54.00	-12.12	305	208	Average	Vertical		
2 *	2404.00	100.45	70.34	38.11	54.00	54.45	305	208	Average	Vertical		
3	2494.81	42.64	3.67	38.97	54.00	-11.36	305	208	Average	Vertical		

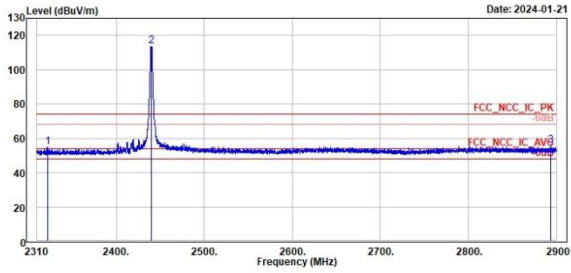
BLE_2M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



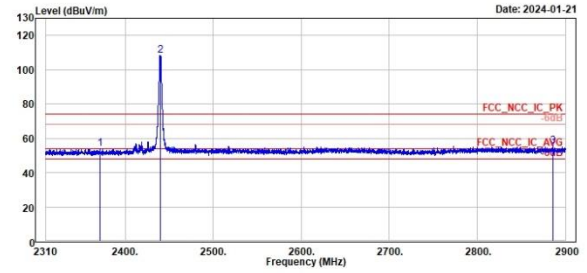
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2322.04	55.00	17.21	37.79	74.00	-19.00		292	91	Peak	Horizontal	
2 *	2440.00	113.50	75.20	38.30	74.00	39.50		292	91	Peak	Horizontal	
3	2893.86	55.62	16.65	38.97	74.00	-18.38		292	91	Peak	Horizontal	



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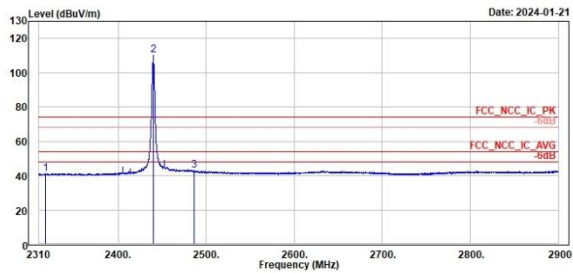
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2371.24	54.02	16.02	38.00	74.00	-19.98		276	173	Peak	Vertical	
2 *	2440.00	100.05	69.75	30.30	74.00	34.05		276	173	Peak	Vertical	
3	2885.72	55.56	16.62	38.94	74.00	-18.44		276	173	Peak	Vertical	

BLE_2M

Middle Channel (Horizontal) Average



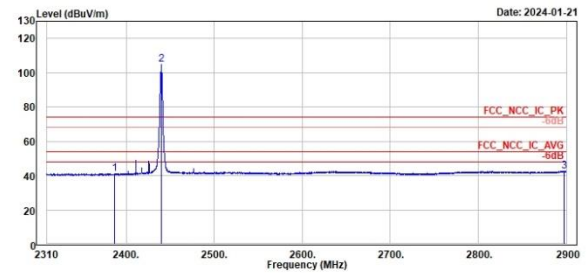
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2317.91	41.06	3.30	37.76	54.00	-12.94	292	91	Average	Horizontal	
2	2440.00	110.24	71.94	38.30	54.00	56.24	292	91	Average	Horizontal	
3	2486.41	42.87	4.55	38.32	54.00	-11.13	292	91	Average	Horizontal	



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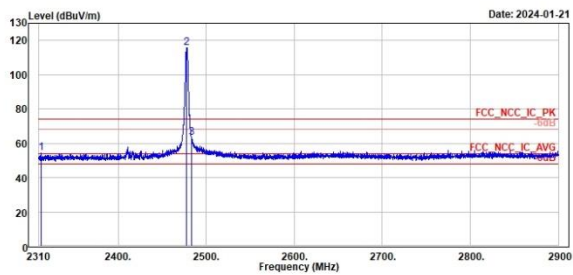
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2387.29	41.07	3.03	38.04	54.00	-12.93	276	173	Average	Vertical	
2	2440.00	104.67	66.37	38.30	54.00	50.67	276	173	Average	Vertical	
3	2897.76	42.59	3.60	38.99	54.00	-11.41	276	173	Average	Vertical	

BLE_2M

High Channel (Horizontal) Peak



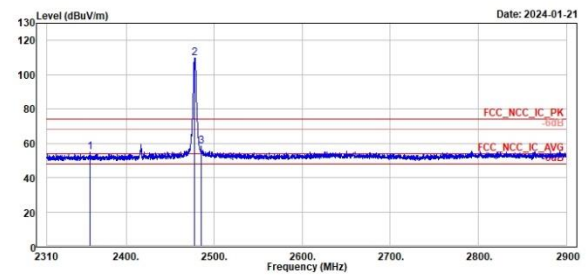
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2313.07	54.68	16.86	37.74	74.00	-19.40		318	92	Peak	Horizontal	
2 *	2478.00	115.84	77.52	38.32	74.00	41.84		318	92	Peak	Horizontal	
3	2483.81	63.10	24.78	38.32	74.00	-10.90		318	92	Peak	Horizontal	



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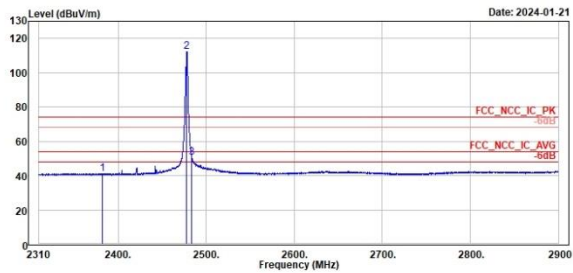
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2358.73	54.68	16.72	37.96	74.00	-19.32		264	173	Peak	Vertical	
2 *	2478.00	109.74	71.42	38.32	74.00	35.74		264	173	Peak	Vertical	
3	2485.58	58.24	19.92	38.32	74.00	-15.76		264	173	Peak	Vertical	

BLE_2M

High Channel (Horizontal) Average



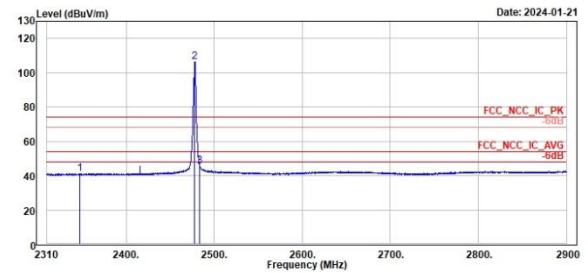
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2382.57	41.15	3.11	38.04	54.00	-12.85	318	92	Average	Horizontal	
2 *	2475.00	112.38	74.06	38.32	54.00	58.38	318	92	Average	Horizontal	
3 †	2483.50	50.61	12.29	38.32	54.00	-3.39	318	92	Average	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	2347.29	41.23	3.31	37.92	54.00	-12.77	264	173	Average	Vertical	
2 *	2475.00	106.40	68.08	38.32	54.00	52.40	264	173	Average	Vertical	
3	2483.58	45.71	7.39	38.32	54.00	-8.29	264	173	Average	Vertical	

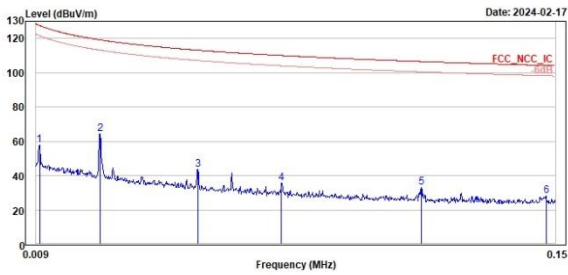
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_1M

Middle Channel (Open) 9kHz~150kHz



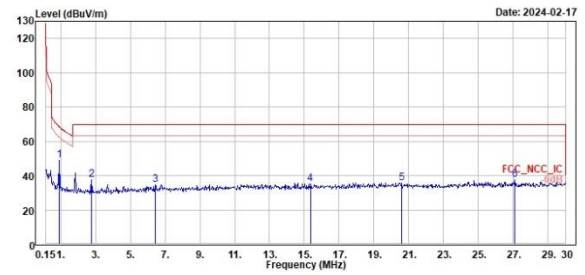
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	57.70	39.39	18.31	127.60	-69.90	100	77	QP	Vertical	
2	0.03	64.14	44.33	19.81	119.13	-54.99	100	338	QP	Vertical	
3	0.05	43.71	24.41	19.30	113.11	-69.40	100	345	QP	Vertical	
4	0.08	35.84	17.23	18.61	110.01	-74.17	100	314	QP	Vertical	
5	0.11	33.09	14.49	18.60	106.49	-73.40	100	115	QP	Vertical	
6	0.15	28.37	9.57	18.80	104.22	-75.85	100	140	QP	Vertical	



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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	cm	deg				
1	0.93	49.15	30.01	19.14	68.27	-19.12	100	217	Peak	Open	
2	2.78	37.35	18.23	19.12	69.50	-32.15	100	220	Peak	Open	
3	6.45	34.49	13.56	20.93	69.50	-35.01	100	75	Peak	Open	
4	15.34	35.16	13.48	21.68	69.50	-34.34	100	211	Peak	Open	
5	20.60	35.63	13.15	22.48	69.50	-33.87	100	351	Peak	Open	
6	27.10	37.77	14.61	22.96	69.50	-31.73	100	227	Peak	Open	

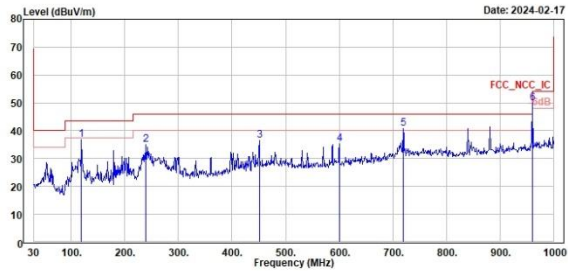
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

BLE_1M

Middle Channel (Horizontal)



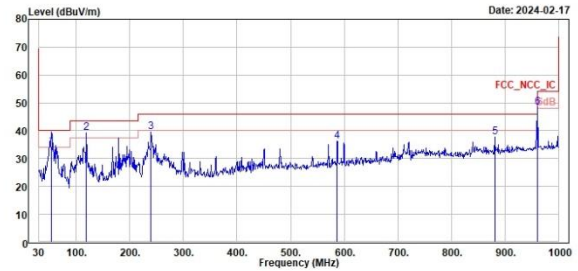
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	119.24	36.83	46.02	-9.19	43.50	-6.67	200	232 Peak	Horizontal	
2	239.52	34.91	41.51	-6.60	46.00	-11.09	100	277 Peak	Horizontal	
3	450.98	36.39	38.41	-2.02	46.00	-9.61	100	185 Peak	Horizontal	
4	680.36	35.31	34.85	0.46	46.00	-10.69	200	312 Peak	Horizontal	
5	719.67	40.89	38.96	1.93	46.00	-5.11	100	258 Peak	Horizontal	
6	960.23	49.80	44.29	5.51	54.00	-4.20	100	169 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	53.28	34.44	40.10	-5.66	40.00	-5.56	100	253 QP	Vertical	
2	119.24	39.25	48.44	-9.19	43.50	-4.25	100	160 Peak	Vertical	
3	239.52	39.51	46.11	-6.60	46.00	-6.49	100	153 Peak	Vertical	
4	586.78	36.27	36.13	0.14	46.00	-9.73	100	208 Peak	Vertical	
5	880.69	37.77	33.22	4.55	46.00	-8.23	100	224 Peak	Vertical	
6	961.20	48.23	42.68	5.55	54.00	-5.77	100	194 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

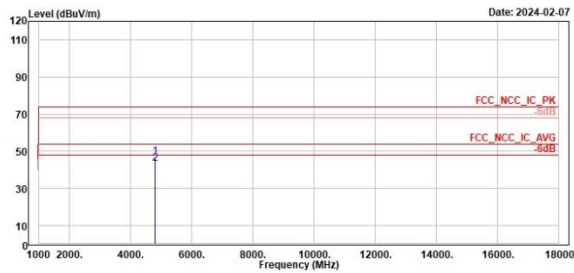
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



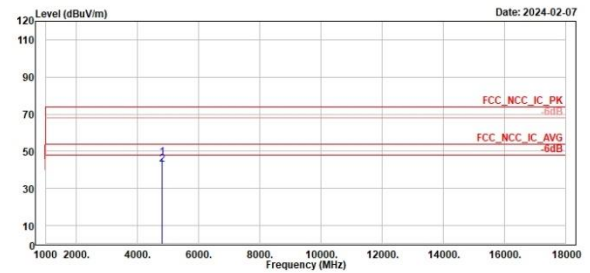
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4804.00	46.79	54.00	-8.01	74.00	-27.21	124	77	Peak	Horizontal	
2	4804.00	43.56	51.57	-8.01	54.00	-10.44	124	77	Average	Horizontal	



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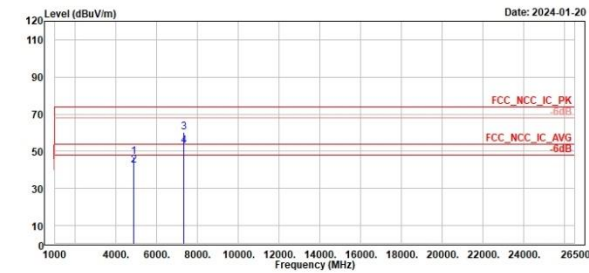
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4804.00	46.76	54.77	-8.01	74.00	-27.24	100	282	Peak	Vertical	
2	4804.00	43.07	51.08	-8.01	54.00	-10.93	100	282	Average	Vertical	

BLE_1M

Middle Channel (Horizontal)



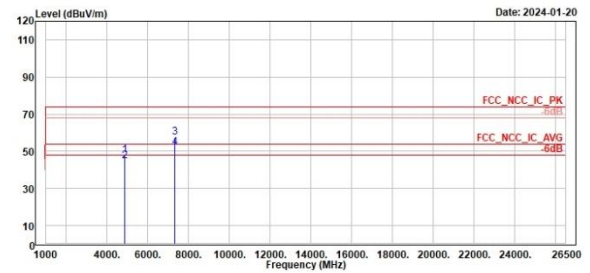
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4880.00	46.83	54.75	-7.92	74.00	-27.17	100	150	Peak	Horizontal	
2	4880.00	42.55	50.47	-7.92	54.00	-11.45	100	150	Average	Horizontal	
3	7320.00	60.20	65.56	-5.36	74.00	-13.80	100	39	Peak	Horizontal	
4	7320.00	53.15	58.51	-5.36	54.00	-0.85	100	39	Average	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	4880.00	47.92	55.84	-7.92	74.00	-26.08	100	277	Peak	Vertical	
2	4880.00	44.86	52.78	-7.92	54.00	-9.14	100	277	Average	Vertical	
3	7320.00	57.47	62.83	-5.36	74.00	-16.53	100	185	Peak	Vertical	
4	7320.00	51.85	57.21	-5.36	54.00	-2.15	100	185	Average	Vertical	

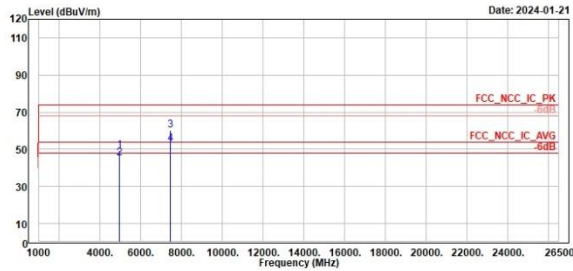
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



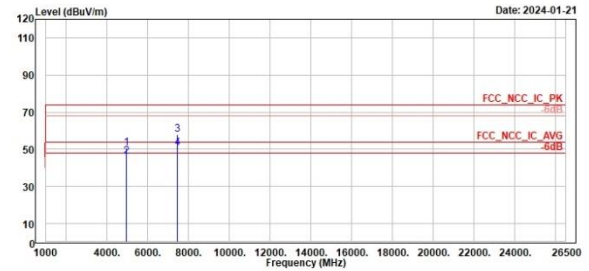
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.00	49.31	57.10	-7.79	74.00	-24.69	200	180	Peak	Horizontal		
2	4960.00	45.30	53.09	-7.79	54.00	-8.70	200	180	Average	Horizontal		
3	7440.00	60.08	65.46	-5.38	74.00	-13.92	100	62	Peak	Horizontal		
4	7440.00	52.88	58.26	-5.38	54.00	-1.12	100	62	Average	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	4960.00	50.55	58.34	-7.79	74.00	-23.45	295	105	Peak	Vertical		
2	4960.00	46.01	53.80	-7.79	54.00	-7.99	295	105	Average	Vertical		
3	7440.00	57.92	63.30	-5.38	74.00	-16.08	100	182	Peak	Vertical		
4	7440.00	50.71	56.09	-5.38	54.00	-3.29	100	182	Average	Vertical		

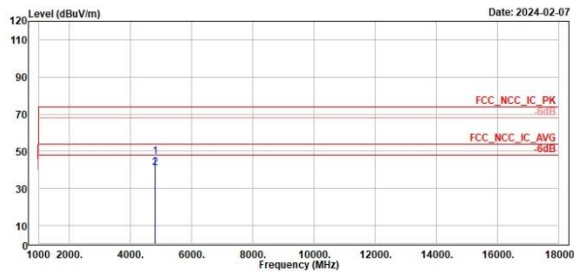
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



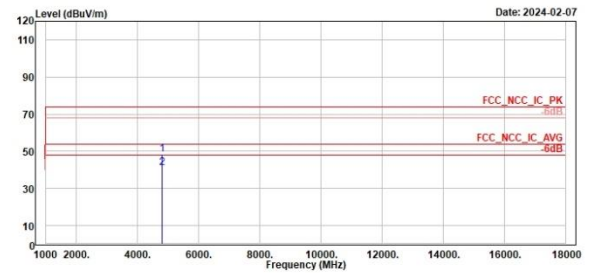
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4880.00	47.14	55.14	-8.00	74.00	-26.86	100	143	Peak	Horizontal	
2	4880.00	41.05	49.05	-8.00	54.00	-12.95	100	143	Average	Horizontal	



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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	4880.00	48.45	56.45	-8.00	74.00	-25.55	100	307	Peak	Vertical	
2	4880.00	40.98	48.98	-8.00	54.00	-13.02	100	307	Average	Vertical	

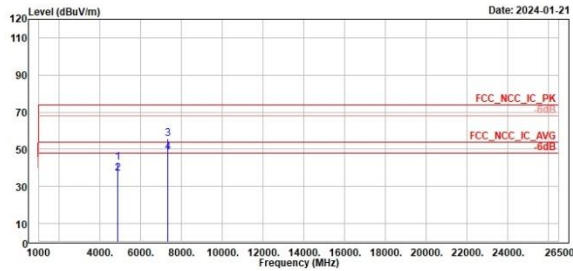
BLE_2M

Middle Channel (Horizontal)

Middle Channel (Vertical)



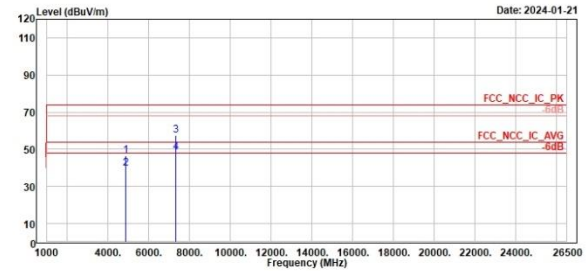
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4880.00	42.89	58.81	-7.92	74.00	-31.11	300	135	Peak	Horizontal	
2	4880.00	36.95	44.87	-7.92	54.00	-17.05	300	135	Average	Horizontal	
3	7320.00	55.53	60.89	-5.36	74.00	-18.47	320	41	Peak	Horizontal	
4	7320.00	48.22	53.58	-5.36	54.00	-5.78	320	41	Average	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	4880.00	46.68	54.52	-7.92	74.00	-27.48	100	291	Peak	Vertical	
2	4880.00	39.88	47.72	-7.92	54.00	-14.28	100	291	Average	Vertical	
3	7320.00	57.51	62.87	-5.36	74.00	-16.49	100	287	Peak	Vertical	
4	7320.00	48.59	53.95	-5.36	54.00	-5.41	100	287	Average	Vertical	

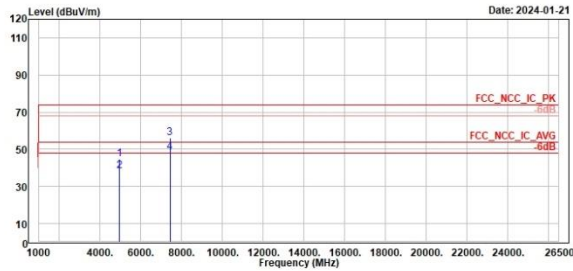
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



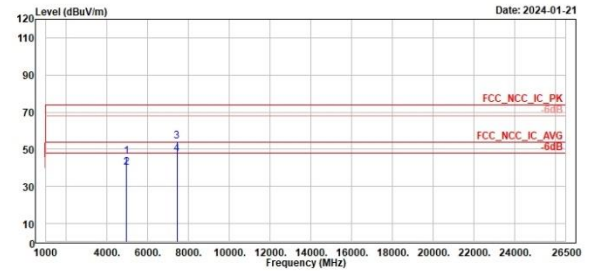
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4956.00	44.80	52.59	-7.79	74.00	-29.20	200	181	Peak	Horizontal		
2	4956.00	38.49	46.28	-7.79	54.00	-15.51	200	181	Average	Horizontal		
3	7434.00	56.04	61.43	-5.39	74.00	-17.96	100	220	Peak	Horizontal		
4	7434.00	48.44	53.83	-5.39	54.00	-5.56	100	220	Average	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	4956.00	46.17	53.96	-7.79	74.00	-27.83	300	289	Peak	Vertical		
2	4956.00	40.11	47.90	-7.79	54.00	-13.89	300	289	Average	Vertical		
3	7434.00	54.17	59.56	-5.39	74.00	-19.83	300	196	Peak	Vertical		
4	7434.00	47.60	52.99	-5.39	54.00	-6.40	300	196	Average	Vertical		

Mains Conducted Emission, Tx Mode 150kHz ~ 30MHz

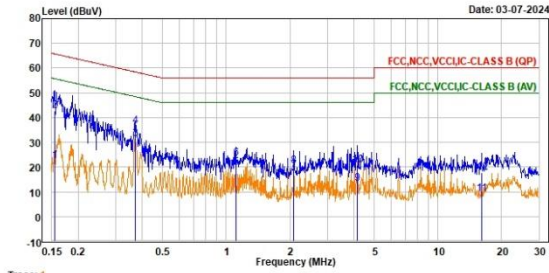
Worst Band

(Line)

(Neutral)



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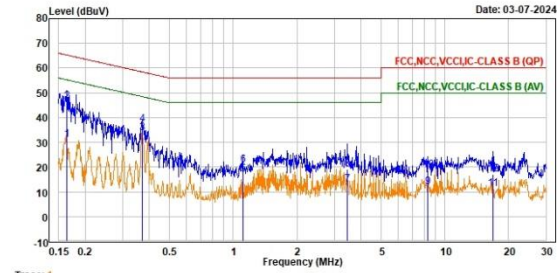


Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.15	22.63	13.01	9.62	55.75	-33.12 Average	line1
2	0.15	42.69	33.07	9.62	65.75	-23.06 QP	line1
3	0.37	31.33	21.70	9.63	48.42	-17.09 Average	line1
4	0.37	36.55	26.92	9.63	58.42	-21.87 QP	line1
5	1.11	19.67	10.03	9.64	46.00	-26.33 Average	line1
6	1.11	23.65	14.01	9.64	56.00	-32.35 QP	line1
7	2.08	18.80	9.14	9.66	46.00	-27.20 Average	line1
8	2.08	20.47	10.81	9.66	56.00	-35.53 QP	line1
9	4.17	13.40	3.72	9.68	46.00	-32.60 Average	line1
10	4.17	20.78	11.10	9.68	56.00	-35.22 QP	line1
11	16.09	9.05	-0.71	9.76	50.00	-40.95 Average	line1
12	16.09	17.81	8.05	9.76	60.00	-42.19 QP	line1



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Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.16	31.09	21.47	9.62	55.30	-24.21 Average	neutral
2	0.16	46.36	36.74	9.62	65.30	-18.94 QP	neutral
3	0.37	33.93	24.30	9.63	48.47	-14.54 Average	neutral
4	0.37	37.06	27.43	9.63	58.47	-21.41 QP	neutral
5	1.11	17.10	7.46	9.64	46.00	-28.90 Average	neutral
6	1.11	20.90	11.26	9.64	56.00	-35.10 QP	neutral
7	3.47	12.91	3.22	9.69	46.00	-33.09 Average	neutral
8	3.47	19.21	9.52	9.69	56.00	-36.79 QP	neutral
9	8.33	11.83	2.06	9.77	50.00	-38.17 Average	neutral
10	8.33	18.63	8.86	9.77	60.00	-41.37 QP	neutral
11	16.83	11.25	1.41	9.84	50.00	-38.75 Average	neutral
12	16.83	17.10	7.26	9.84	60.00	-42.90 QP	neutral