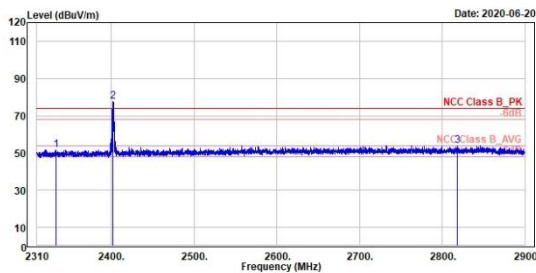
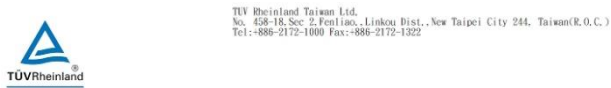


Appendix A: Test Results of Radiated Spurious Emissions

Band Edges, 2.31GHz ~ 2.9GHz

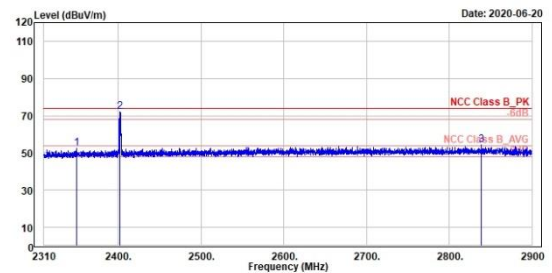
BLE_1M

Low Channel (Horizontal) Peak



Peak	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	2333.48	51.76	14.60	37.16	74.00	-22.24	307	101	Peak	horizontal		
2 *	2402.00	77.38	40.01	37.37	74.00	3.38	307	101	Peak	horizontal		
3	2818.93	54.04	16.07	37.97	74.00	-19.96	307	101	Peak	horizontal		

Low Channel (Vertical) Peak



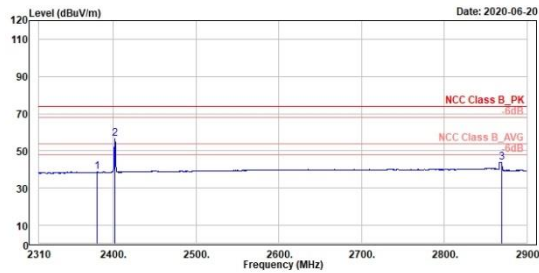
Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2349.53	52.28	15.07	37.21	74.00	-21.72	396	8	Peak	Vertical		
2 !	2402.00	72.20	34.83	37.37	74.00	-1.80	396	8	Peak	Vertical		
3	2838.76	54.17	16.14	38.03	74.00	-19.83	396	8	Peak	Vertical		

BLE_1M

Low Channel (Horizontal) Average



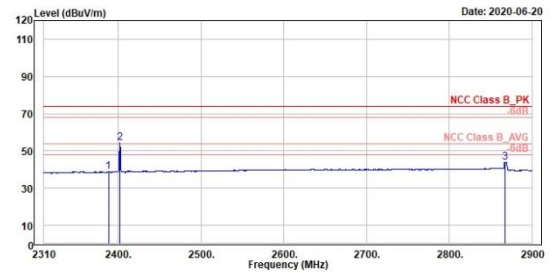
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2388.56	38.59	1.29	37.30	54.00	-15.41	397	101	Average	horizontal	
2 *	2482.00	56.64	19.27	37.37	54.00	2.64	397	101	Average	horizontal	
3	2869.91	43.85	5.68	38.17	54.00	-10.15	397	101	Average	horizontal	



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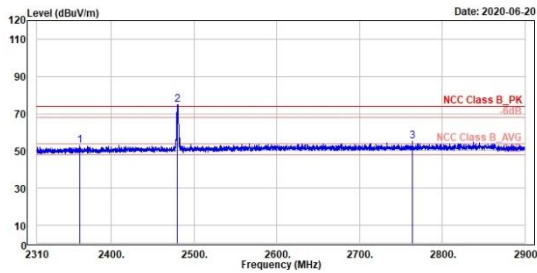
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2388.00	38.69	1.36	37.33	54.00	-15.31	396	8	Average	Vertical	
2 *	2482.00	54.24	16.87	37.37	54.00	0.24	396	8	Average	Vertical	
3	2867.55	43.90	5.75	38.15	54.00	-10.10	396	8	Average	Vertical	

BLE_1M

High Channel (Horizontal) Peak



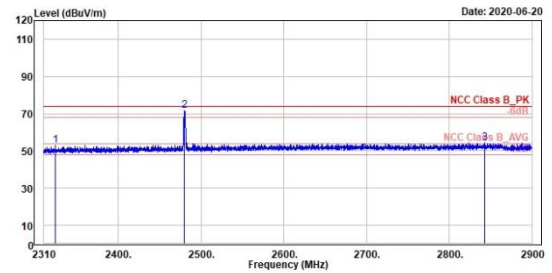
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2362.27	52.97	15.73	37.24	74.00	-21.03	316	102	Peak	Horizontal	
2 *	2480.00	74.77	37.21	37.56	74.00	0.77	316	102	Peak	Horizontal	
3	2764.30	55.11	17.24	37.87	74.00	-18.89	316	102	Peak	Horizontal	



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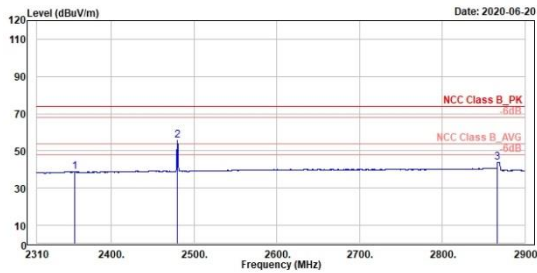
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2323.69	53.14	16.01	37.13	74.00	-20.86	358	74	Peak	Vertical	
2 !	2480.00	71.82	34.26	37.56	74.00	-2.18	358	74	Peak	Vertical	
3	2842.65	54.30	16.25	38.05	74.00	-19.70	358	74	Peak	Vertical	

BLE_1M

High Channel (Horizontal) Average



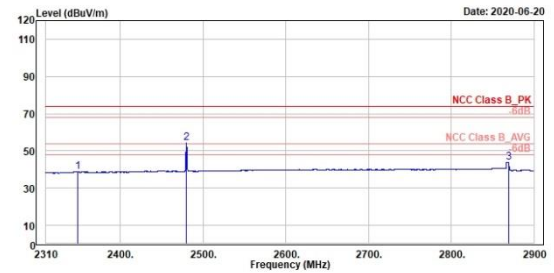
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2355.98	38.70	1.48	37.22	54.00	-15.30	316	102	Average	Horizontal	
2 *	2488.00	55.00	16.24	37.56	54.00	1.00	316	102	Average	Horizontal	
3	2866.37	43.96	5.81	38.15	54.00	-10.04	316	102	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	cm	deg				
1	2348.11	38.72	1.52	37.20	54.00	-15.28	358	74	Average	Vertical	
2 *	2488.00	54.14	16.56	37.56	54.00	0.14	358	74	Average	Vertical	
3	2869.56	43.97	5.80	38.17	54.00	-10.03	358	74	Average	Vertical	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

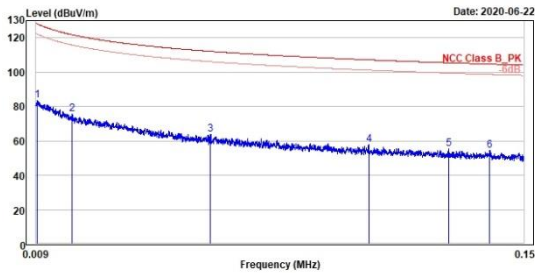
BLE_1M

High Channel 9kHz~150kHz

High Channel 150kHz~30MHz



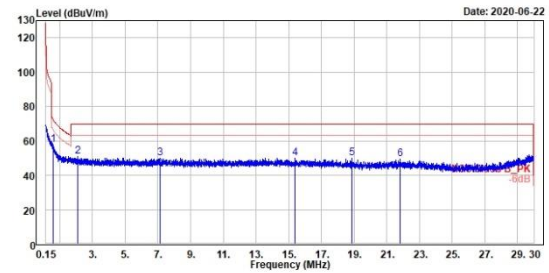
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	83.68	4.21	79.47	128.10	-44.42	100	126 QP	vertical		
2	0.02	75.82	2.97	72.85	121.79	-45.97	100	21 QP	vertical		
3	0.06	64.00	0.28	63.72	112.11	-48.11	100	49 QP	vertical		
4	0.11	57.62	-1.33	58.95	107.16	-49.54	100	322 QP	vertical		
5	0.13	55.21	-2.40	57.61	105.44	-50.23	100	161 QP	vertical		
6	0.14	54.33	-2.59	56.92	104.66	-50.33	100	359 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	0.60	57.97	12.87	45.10	71.99	-14.02	100	355 QP	vertical		
2	2.11	51.10	12.45	38.65	69.50	-18.40	100	44 QP	vertical		
3	7.11	49.96	11.63	38.33	69.50	-19.54	100	118 QP	vertical		
4	15.37	50.15	12.49	37.66	69.50	-19.35	100	142 QP	vertical		
5	18.86	49.75	13.25	36.50	69.50	-19.75	100	286 QP	vertical		
6	21.83	49.56	13.66	35.90	69.50	-19.94	100	264 QP	vertical		

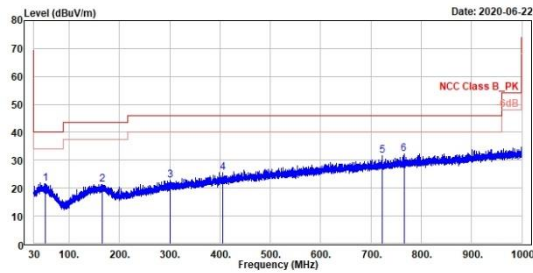
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

BLE_1M

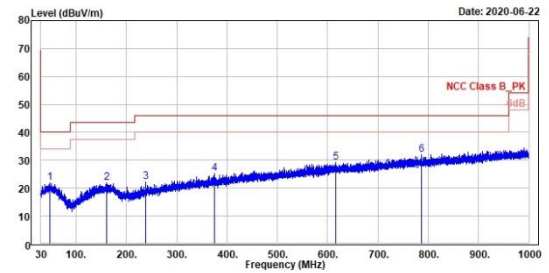
High Channel (Horizontal)



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Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

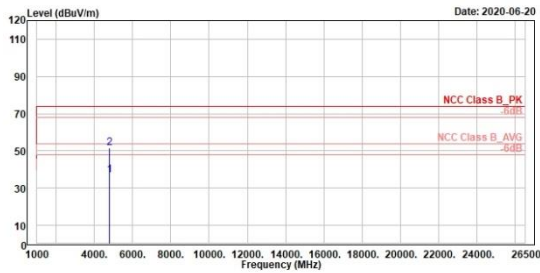
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



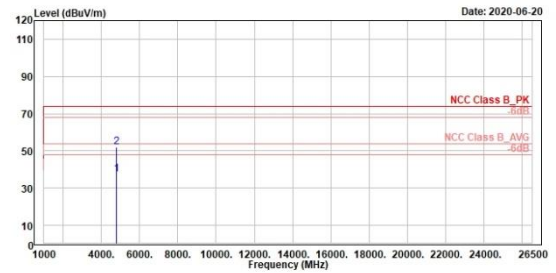
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	36.81	47.01	-10.20	54.00	-17.19	480	329	Average	horizontal	
2	4894.00	51.71	61.91	-10.20	74.00	-22.29	480	329	Peak	horizontal	



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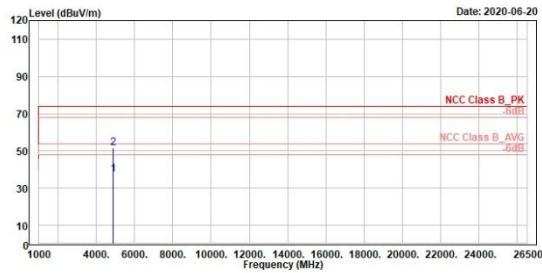
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	37.20	47.40	-10.20	54.00	-16.80	375	295	Average	vertical	
2	4894.00	52.15	62.35	-10.20	74.00	-21.65	375	295	Peak	vertical	

BLE_1M

Middle Channel (Horizontal)



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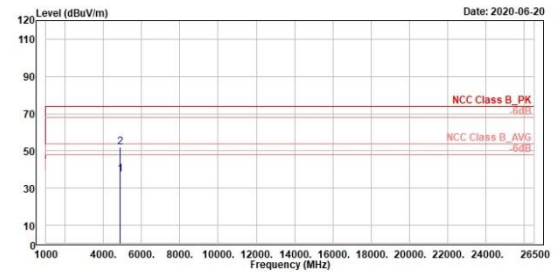


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	37.47	47.53	-10.06	54.00	-16.53	128	171	Average	horizontal	
2	4880.00	51.69	61.75	-10.06	74.00	-22.31	128	171	Peak	horizontal	

Middle Channel (Vertical)



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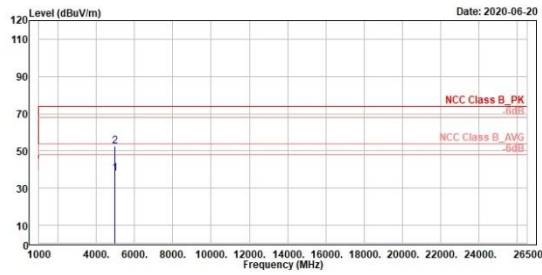
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	37.61	47.67	-10.06	54.00	-16.39	290	282	Average	vertical	
2	4880.00	52.09	62.15	-10.06	74.00	-21.91	290	282	Peak	vertical	

BLE_1M

High Channel (Horizontal)



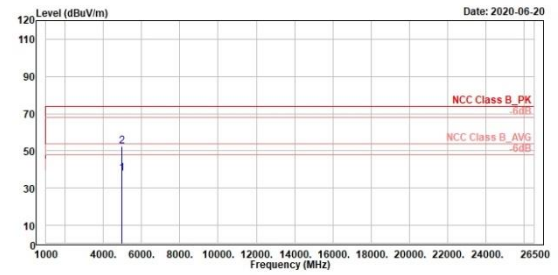
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	38.05	47.81	-9.76	54.00	-15.95	136	23	Average	horizontal		
2	4960.00	52.47	62.23	-9.76	74.00	-21.53	136	23	Peak	horizontal		



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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	cm	deg				
1	4960.00	38.05	47.81	-9.76	54.00	-15.95	299	284	Average	vertical		
2	4960.00	52.50	62.26	-9.76	74.00	-21.50	299	284	Peak	vertical		

Spurious Emissions, Rx Mode, 9kHz ~ 30MHz

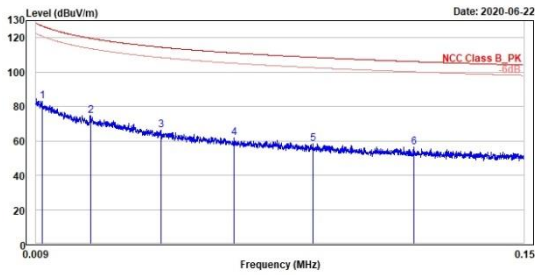
BLE_1M

High Channel 9kHz~150kHz

High Channel 150kHz~30MHz



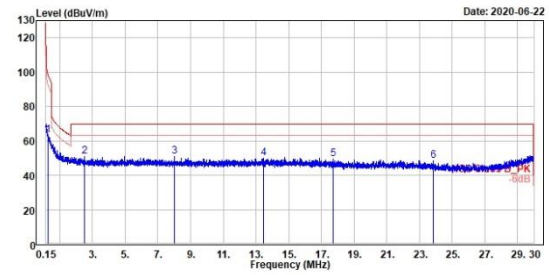
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	83.04	4.69	78.35	126.94	-43.90	100	162 QP	vertical	
2	0.02	74.57	2.88	71.69	119.73	-45.16	100	219 QP	vertical	
3	0.05	66.07	-0.21	66.28	114.51	-48.44	100	358 QP	vertical	
4	0.07	61.74	-1.10	62.84	111.17	-49.43	100	272 QP	vertical	
5	0.09	58.21	-2.32	60.53	108.60	-50.39	100	134 QP	vertical	
6	0.12	56.59	-1.60	58.19	106.14	-49.55	100	47 QP	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	0.28	63.12	11.02	51.20	98.80	-35.68	100	159 QP	vertical	
2	2.50	51.08	12.62	38.46	69.50	-18.42	100	30 QP	vertical	
3	8.01	50.74	12.67	38.07	69.50	-18.76	100	249 QP	vertical	
4	13.48	49.98	12.47	37.51	69.50	-19.52	100	123 QP	vertical	
5	17.73	49.28	12.36	36.92	69.50	-20.22	100	152 QP	vertical	
6	23.86	48.61	13.63	34.98	69.50	-20.89	100	28 QP	vertical	

Spurious Emissions, Rx Mode, 30MHz ~ 1GHz

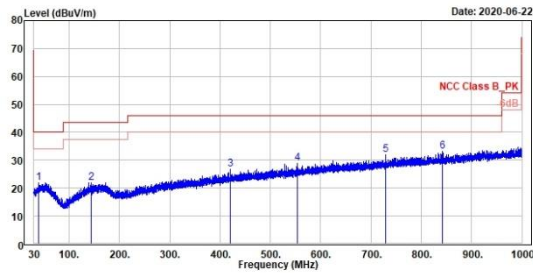
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



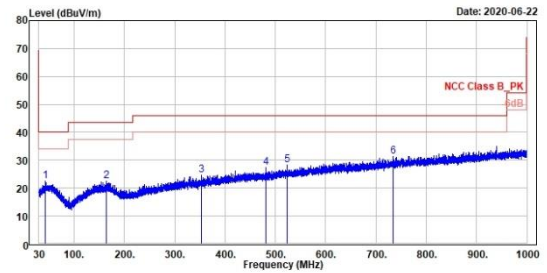
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	39.68	21.99	30.06	-8.07	40.00	-18.01	300	207	QP	horizontal		
2	143.49	22.02	29.69	-7.67	43.50	-21.48	400	214	QP	horizontal		
3	420.43	26.85	31.11	-4.26	46.00	-19.15	100	259	QP	horizontal		
4	553.41	28.00	31.12	-2.32	46.00	-17.20	300	0	QP	horizontal		
5	729.37	31.84	31.14	0.70	46.00	-14.16	200	262	QP	horizontal		
6	843.05	33.19	30.86	2.33	46.00	-12.81	400	110	QP	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	cm	deg				
1	43.29	22.41	30.10	-7.69	40.00	-17.59	300	204	QP	vertical		
2	164.73	22.48	29.76	-7.28	43.50	-21.02	200	226	QP	vertical		
3	352.91	24.61	30.29	-5.68	46.00	-21.39	300	313	QP	vertical		
4	480.76	27.25	30.82	-3.57	46.00	-18.75	200	51	QP	vertical		
5	523.05	28.30	31.07	-2.77	46.00	-17.70	400	308	QP	vertical		
6	734.00	31.33	30.52	0.81	46.00	-14.67	200	58	QP	vertical		

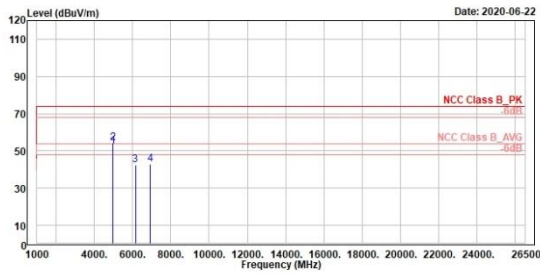
Spurious Emissions, Rx Mode, 1GHz ~ 26.5GHz

BLE_1M

High Channel (Horizontal)



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