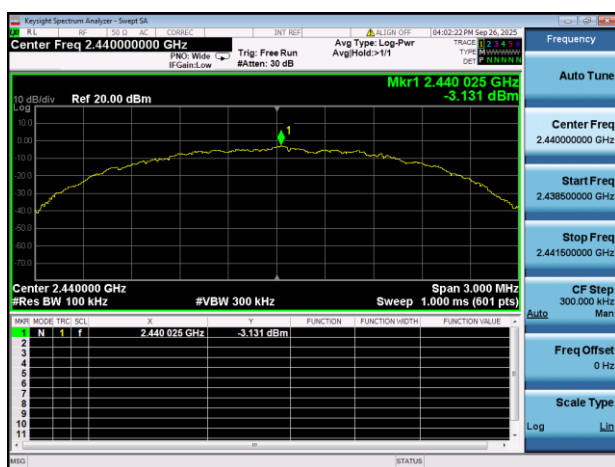
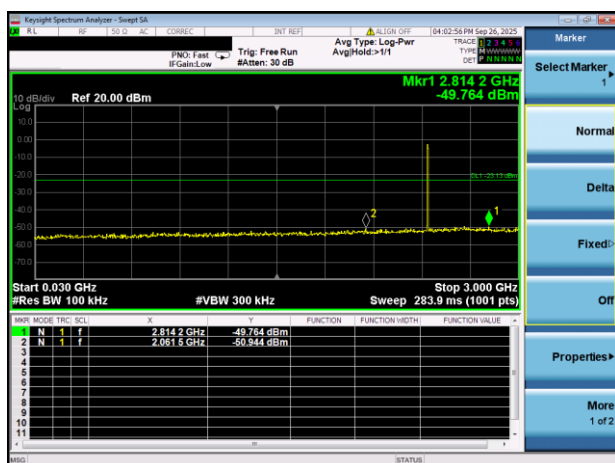


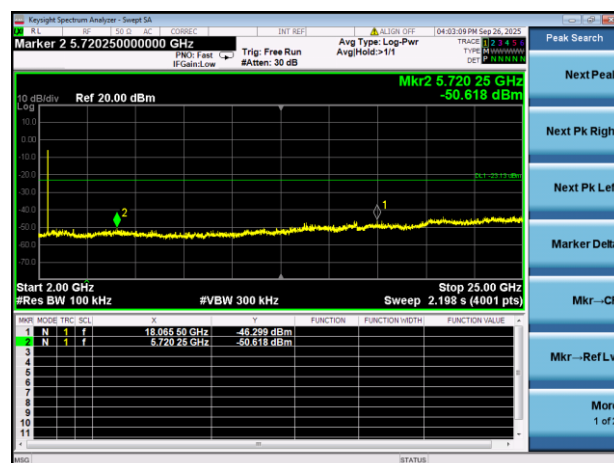
GFSK (BLE 2Mbps) MIDDLE CHANNEL, CARRIER LEVEL



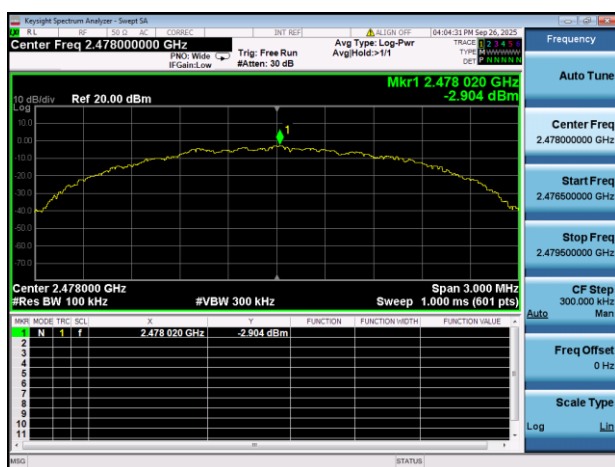
GFSK (BLE 2Mbps) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



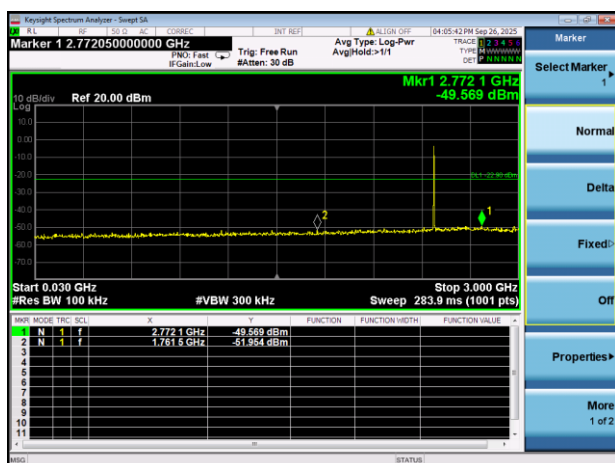
GFSK (BLE 2Mbps) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



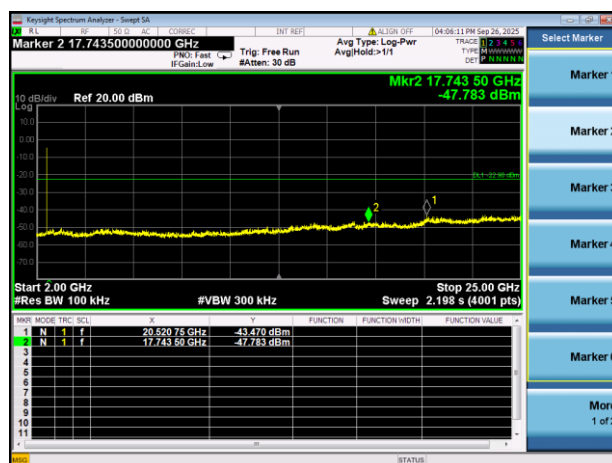
GFSK (BLE 2Mbps) HIGH CHANNEL, CARRIER LEVEL



GFSK (BLE 2Mbps) HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



GFSK (BLE 2Mbps) HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



A.4 Band Edge (Authorized-band band-edge)

Note: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Test Data

GFSK (BLE 1Mbps)				
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-50.34	-1.26	-21.26	Pass
High Channel	-52.03	-2.01	-22.01	Pass

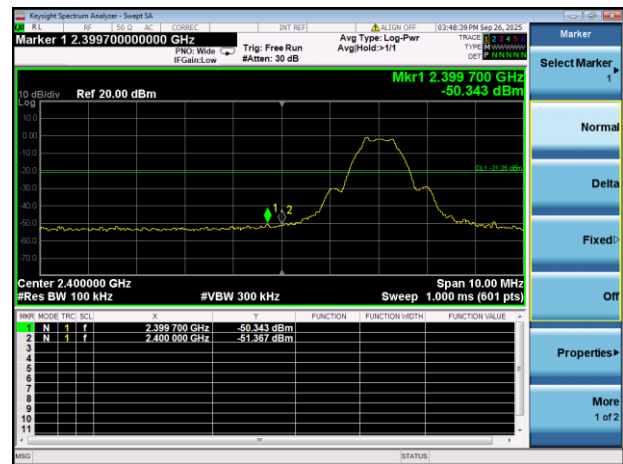
GFSK (BLE 2Mbps)				
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-50.28	-2.59	-22.59	Pass
High Channel	-50.64	-2.90	-22.90	Pass

Test Plots

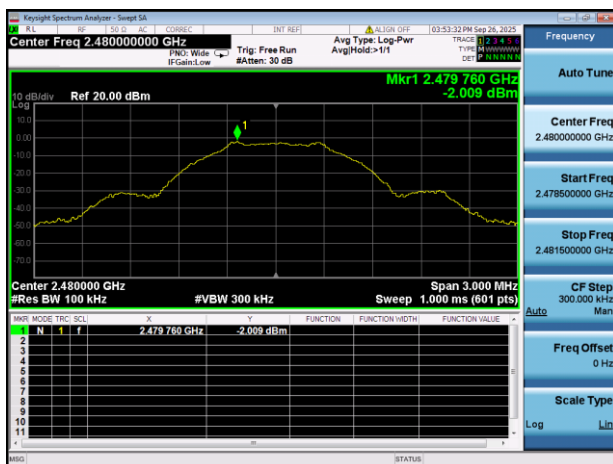
GFSK (BLE 1Mbps) LOW CHANNEL, CARRIER LEVEL



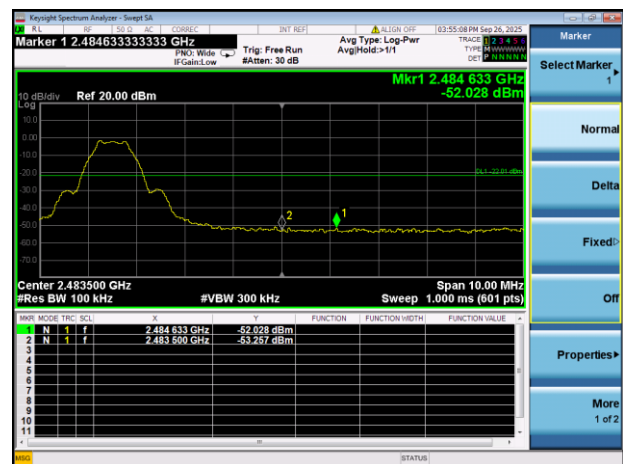
GFSK (BLE 1Mbps) LOW CHANNEL, BAND EDGE



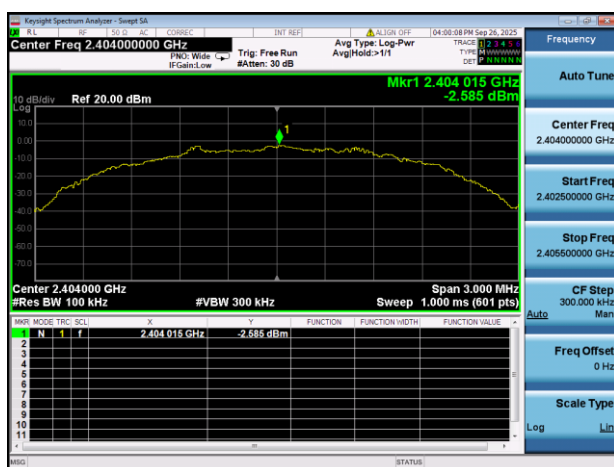
GFSK (BLE 1Mbps) HIGH CHANNEL, CARRIER LEVEL



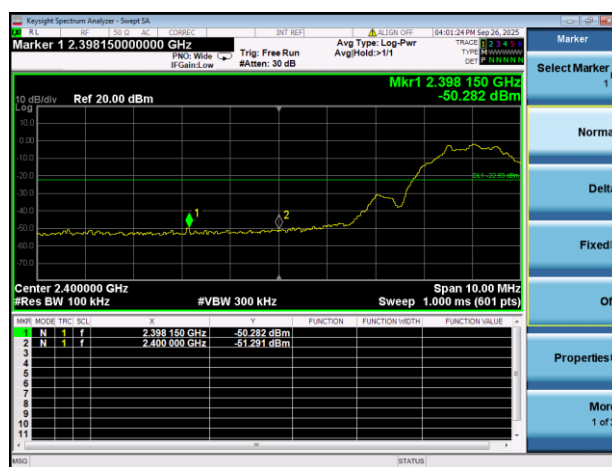
GFSK (BLE 1Mbps) HIGH CHANNEL, BAND EDGE



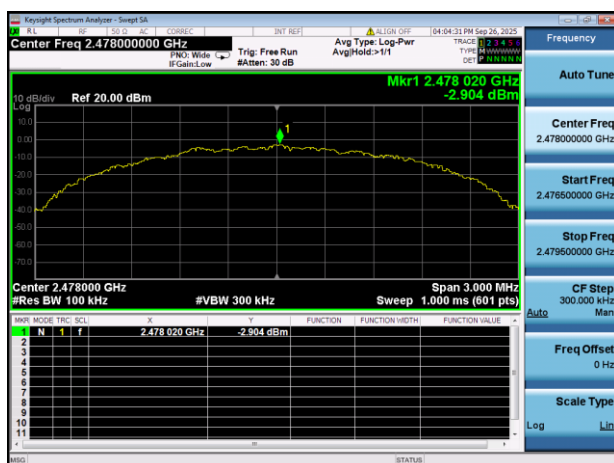
GFSK (BLE 2Mbps) LOW CHANNEL, CARRIER LEVEL



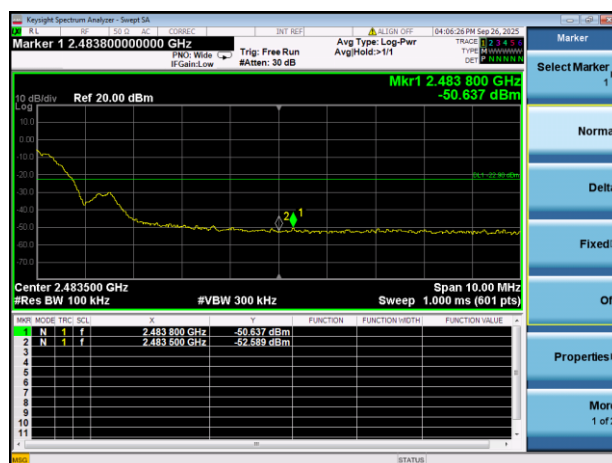
GFSK (BLE 2Mbps) LOW CHANNEL, BAND EDGE



GFSK (BLE 2Mbps) HIGH CHANNEL, CARRIER LEVEL



GFSK (BLE 2Mbps) HIGH CHANNEL, BAND EDGE



A.5 Conducted Emissions

Note¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

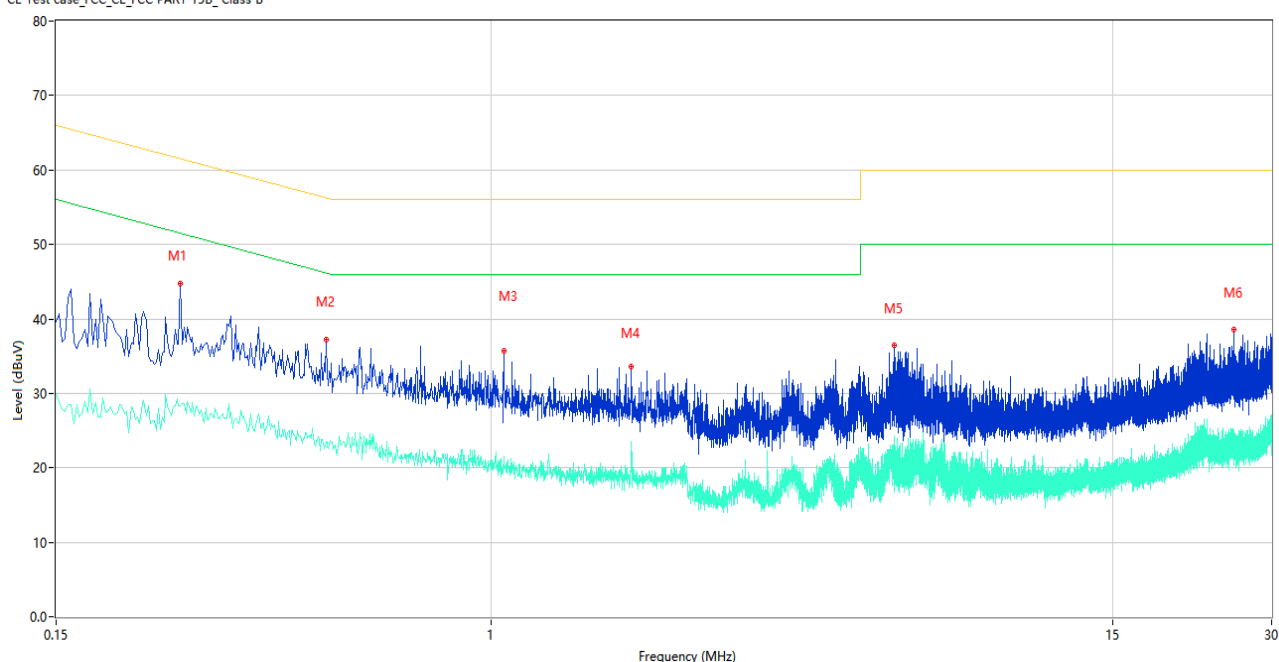
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PHASE L

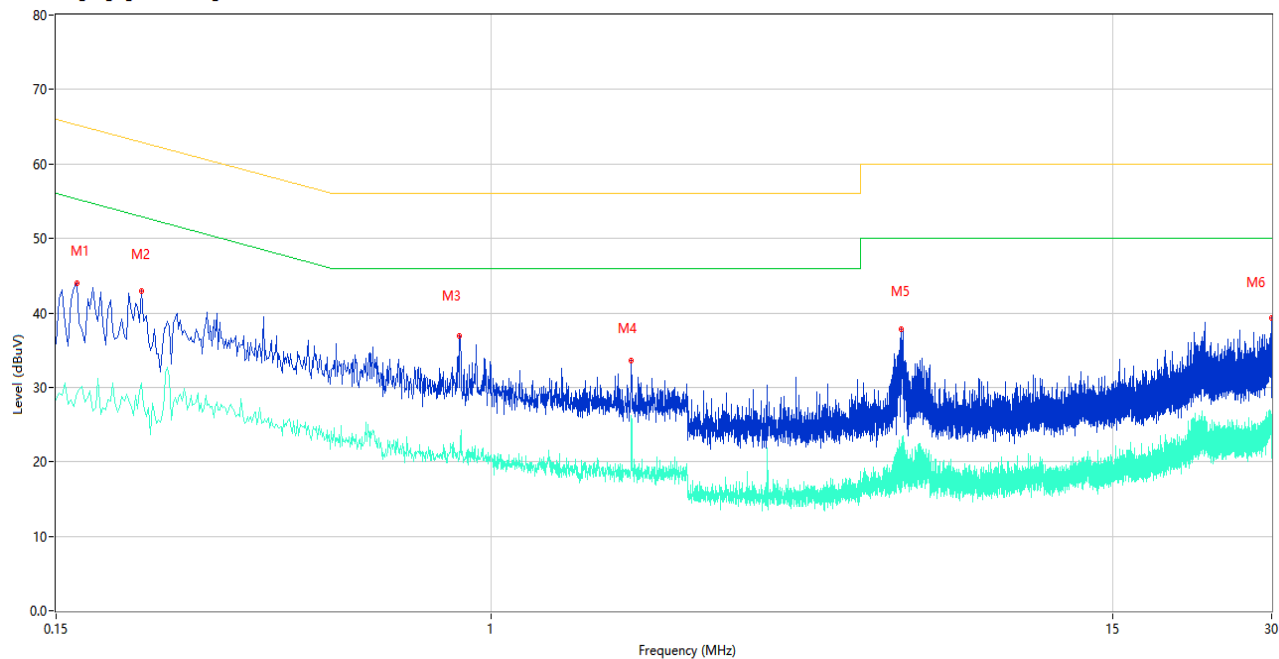
CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.258	44.71	10.26	61.50	16.79	Peak	L	Pass
1**	0.258	28.30	10.26	51.50	23.20	AV	L	Pass
2	0.486	37.28	10.27	56.24	18.96	Peak	L	Pass
2**	0.486	23.50	10.27	46.24	22.74	AV	L	Pass
3	1.056	35.74	10.33	56.00	20.26	Peak	L	Pass
3**	1.056	21.57	10.33	46.00	24.43	AV	L	Pass
4	1.842	33.55	10.42	56.00	22.45	Peak	L	Pass
4**	1.842	23.53	10.42	46.00	22.47	AV	L	Pass
5	5.780	36.52	11.01	60.00	23.48	Peak	L	Pass
5**	5.780	24.31	11.01	50.00	25.69	AV	L	Pass
6	25.480	38.51	15.53	60.00	21.49	Peak	L	Pass
6**	25.480	22.80	15.53	50.00	27.20	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.164	44.05	10.21	65.26	21.21	Peak	N	Pass
1**	0.164	29.18	10.21	55.26	26.08	AV	N	Pass
2	0.218	42.89	10.19	62.89	20.00	Peak	N	Pass
2**	0.218	30.61	10.19	52.89	22.28	AV	N	Pass
3	0.870	36.87	10.23	56.00	19.13	Peak	N	Pass
3**	0.870	21.42	10.23	46.00	24.58	AV	N	Pass
4	1.842	33.53	10.33	56.00	22.47	Peak	N	Pass
4**	1.842	26.19	10.33	46.00	19.81	AV	N	Pass
5	5.972	37.86	10.94	60.00	22.14	Peak	N	Pass
5**	5.972	17.04	10.94	50.00	32.96	AV	N	Pass
6	29.966	39.25	16.46	60.00	20.75	Peak	N	Pass
6**	29.966	25.64	16.46	50.00	24.36	AV	N	Pass

A.6 Radiated Spurious Emission

Note ¹: The symbol of “--” in the table which means not application.

Note ²: For the test data above 1 GHz, according the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

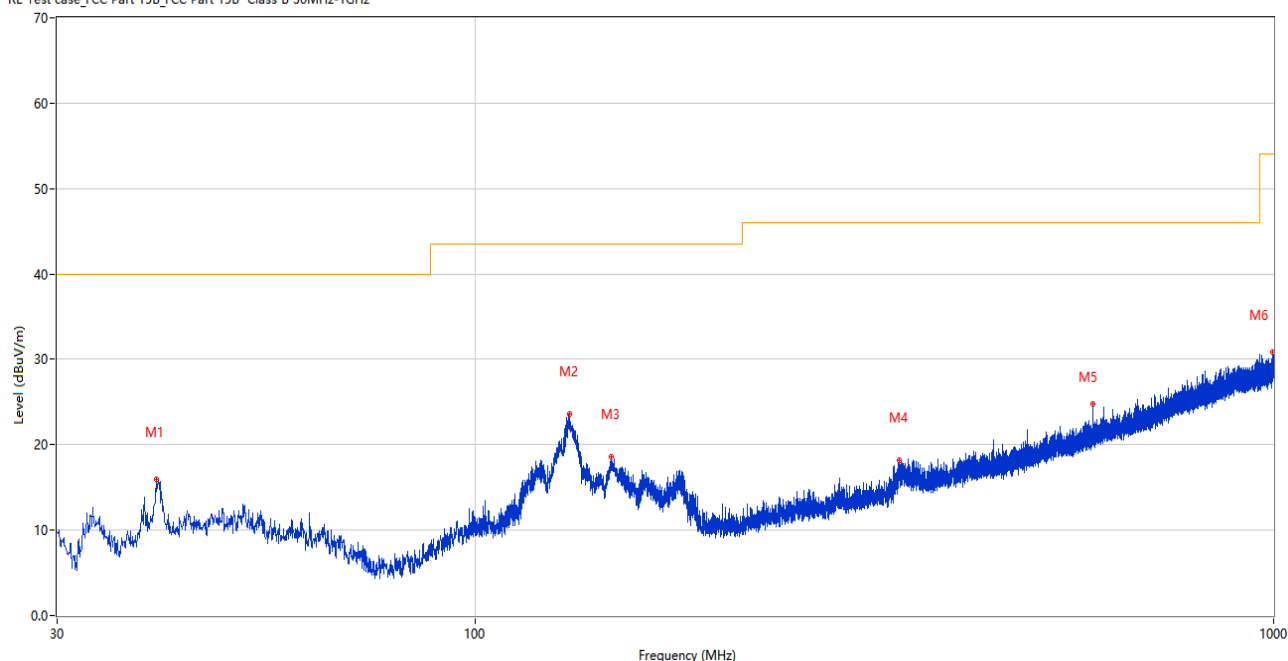
Note ⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and BLE 1M-Low channel mode is the worst.

Note ⁵: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

Test Data and Plots

30 MHz to 1 GHz, ANT H

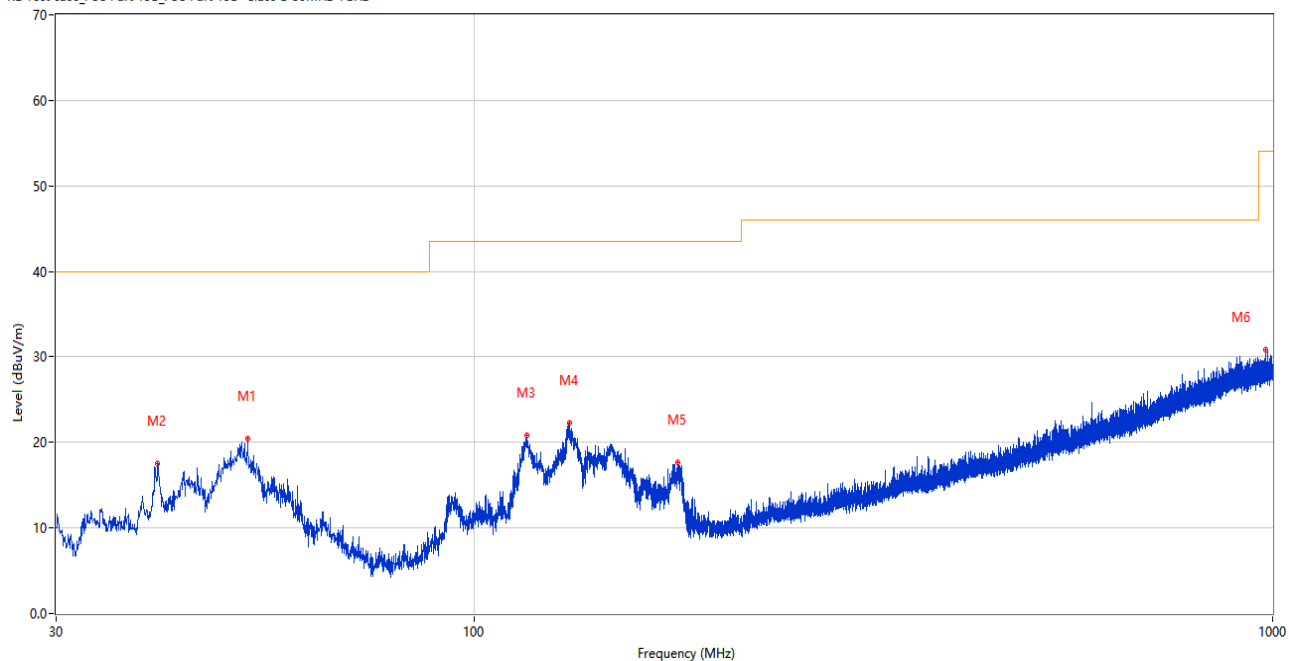
RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	39.991	15.95	-27.14	40.0	24.05	Peak	20.00	200	Horizontal	Pass
2	131.413	23.55	-29.92	43.5	19.95	Peak	123.00	200	Horizontal	Pass
3	148.340	18.55	-30.17	43.5	24.95	Peak	333.00	200	Horizontal	Pass
4	340.206	18.25	-22.23	46.0	27.75	Peak	340.00	100	Horizontal	Pass
5	594.055	24.76	-16.09	46.0	21.24	Peak	166.00	200	Horizontal	Pass
6	997.041	30.81	-8.35	54.0	23.19	Peak	330.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.068	20.49	-24.83	40.0	19.51	Peak	83.00	100	Vertical	Pass
2	40.185	17.54	-26.74	40.0	22.46	Peak	266.00	100	Vertical	Pass
3	116.476	20.81	-27.53	43.5	22.69	Peak	168.00	100	Vertical	Pass
4	131.704	22.26	-30.01	43.5	21.24	Peak	221.00	100	Vertical	Pass
5	179.865	17.69	-28.20	43.5	25.81	Peak	259.00	100	Vertical	Pass
6	979.775	30.84	-8.66	54.0	23.16	Peak	102.00	100	Vertical	Pass

Note ¹: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note ²: The spurious from 18GHz-25GHz is noise only, do not show on the report.

GFSK (BLE 1Mbps) LOW CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1449.200	42.18	-17.48	74.0	31.82	Peak	360.00	400	Horizontal	Pass
1**	1449.200	32.54	-17.48	54.0	21.46	AV	360.00	400	Horizontal	Pass
2	2402.000	85.34	-13.33	74.0	-11.34	Peak	168.00	200	Horizontal	N/A
2**	2402.000	85.18	-13.33	54.0	-31.18	AV	168.00	200	Horizontal	N/A
3	2954.200	50.54	-10.02	74.0	23.46	Peak	88.00	200	Horizontal	Pass
3**	2954.200	40.75	-10.02	54.0	13.25	AV	88.00	200	Horizontal	Pass
4	4961.600	49.93	-3.57	74.0	24.07	Peak	95.00	200	Horizontal	Pass
4**	4961.600	40.38	-3.57	54.0	13.62	AV	95.00	200	Horizontal	Pass
5	6912.200	52.92	-0.43	74.0	21.08	Peak	198.00	400	Horizontal	Pass
5**	6912.200	43.54	-0.43	54.0	10.46	AV	198.00	400	Horizontal	Pass
6	16252.013	53.62	5.53	74.0	20.38	Peak	119.00	200	Horizontal	Pass
6**	16252.013	44.05	5.53	54.0	9.95	AV	119.00	200	Horizontal	Pass

GFSK (BLE 1Mbps) LOW CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1408.300	42.41	-17.05	74.0	31.59	Peak	2.00	400	Vertical	Pass
1**	1408.300	33.03	-17.05	54.0	20.97	AV	2.00	400	Vertical	Pass
2	2402.000	88.50	-13.33	74.0	-14.50	Peak	68.00	100	Vertical	N/A
2**	2402.000	88.36	-13.33	54.0	-34.36	AV	68.00	100	Vertical	N/A
3	2959.900	50.40	-10.10	74.0	23.60	Peak	96.00	100	Vertical	Pass
3**	2959.900	40.77	-10.10	54.0	13.23	AV	96.00	100	Vertical	Pass
4	4942.800	50.84	-3.66	74.0	23.16	Peak	143.00	200	Vertical	Pass
4**	4942.800	40.65	-3.66	54.0	13.35	AV	143.00	200	Vertical	Pass
5	6894.200	52.86	-0.50	74.0	21.14	Peak	96.00	400	Vertical	Pass
5**	6894.200	43.53	-0.50	54.0	10.47	AV	96.00	400	Vertical	Pass
6	16229.437	53.91	5.23	74.0	20.09	Peak	306.00	150	Vertical	Pass
6**	16229.437	44.12	5.23	54.0	9.88	AV	306.00	150	Vertical	Pass

GFSK (BLE 1Mbps) MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1679.500	41.88	-17.43	74.0	32.12	Peak	360.00	300	Horizontal	Pass
1**	1679.500	32.31	-17.43	54.0	21.69	AV	360.00	300	Horizontal	Pass
2	2440.000	84.34	-11.70	74.0	-10.34	Peak	162.00	150	Horizontal	N/A
2**	2440.000	84.19	-11.70	54.0	-30.19	AV	162.00	150	Horizontal	N/A
3	2990.800	50.73	-9.99	74.0	23.27	Peak	2.00	200	Horizontal	Pass
3**	2990.800	41.42	-9.99	54.0	12.58	AV	2.00	200	Horizontal	Pass
4	4992.400	50.13	-3.44	74.0	23.87	Peak	102.00	400	Horizontal	Pass
4**	4992.400	40.72	-3.44	54.0	13.28	AV	102.00	400	Horizontal	Pass
5	6976.200	53.09	-0.32	74.0	20.91	Peak	174.00	100	Horizontal	Pass
5**	6976.200	44.50	-0.32	54.0	9.50	AV	174.00	100	Horizontal	Pass
6	15644.588	53.69	4.91	74.0	20.31	Peak	0.00	400	Horizontal	Pass
6**	15644.588	42.66	4.91	54.0	11.34	AV	0.00	400	Horizontal	Pass

GFSK (BLE 1Mbps) MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1477.400	41.89	-17.50	74.0	32.11	Peak	291.00	100	Vertical	Pass
1**	1477.400	32.45	-17.50	54.0	21.55	AV	291.00	100	Vertical	Pass
2	2440.000	88.38	-11.70	74.0	-14.38	Peak	70.00	200	Vertical	N/A
2**	2440.000	88.20	-11.70	54.0	-34.20	AV	70.00	200	Vertical	N/A
3	2953.600	50.58	-10.03	74.0	23.42	Peak	1.00	150	Vertical	Pass
3**	2953.600	41.19	-10.03	54.0	12.81	AV	1.00	150	Vertical	Pass
4	4817.600	49.53	-3.39	74.0	24.47	Peak	269.00	300	Vertical	Pass
4**	4817.600	40.46	-3.39	54.0	13.54	AV	269.00	300	Vertical	Pass
5	6929.000	53.05	-0.57	74.0	20.95	Peak	117.00	400	Vertical	Pass
5**	6929.000	43.46	-0.57	54.0	10.54	AV	117.00	400	Vertical	Pass
6	16948.688	53.83	4.28	74.0	20.17	Peak	119.00	100	Vertical	Pass
6**	16948.688	43.84	4.28	54.0	10.16	AV	119.00	100	Vertical	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1374.200	41.66	-17.47	74.0	32.34	Peak	297.00	400	Horizontal	Pass
1**	1374.200	31.36	-17.47	54.0	22.64	AV	297.00	400	Horizontal	Pass
2	2480.200	84.66	-12.60	74.0	-10.66	Peak	81.00	150	Horizontal	N/A
2**	2480.200	83.94	-12.60	54.0	-29.94	AV	81.00	150	Horizontal	N/A
3	2959.200	50.50	-10.09	74.0	23.50	Peak	81.00	150	Horizontal	Pass
3**	2959.200	41.52	-10.09	54.0	12.48	AV	81.00	150	Horizontal	Pass
4	4952.200	49.53	-3.67	74.0	24.47	Peak	172.00	400	Horizontal	Pass
4**	4952.200	40.55	-3.67	54.0	13.45	AV	172.00	400	Horizontal	Pass
5	6977.200	52.64	-0.32	74.0	21.36	Peak	345.00	100	Horizontal	Pass
5**	6977.200	43.96	-0.32	54.0	10.04	AV	345.00	100	Horizontal	Pass
6	15677.138	53.15	4.87	74.0	20.85	Peak	12.00	200	Horizontal	Pass
6**	15677.138	43.40	4.87	54.0	10.60	AV	12.00	200	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1593.500	41.80	-17.73	74.0	32.20	Peak	360.00	100	Vertical	Pass
1**	1593.500	32.32	-17.73	54.0	21.68	AV	360.00	100	Vertical	Pass
2	2480.300	88.11	-12.60	74.0	-14.11	Peak	73.00	100	Vertical	N/A
2**	2480.300	87.88	-12.60	54.0	-33.88	AV	73.00	100	Vertical	N/A
3	2966.800	50.31	-10.21	74.0	23.69	Peak	196.00	200	Vertical	Pass
3**	2966.800	40.89	-10.21	54.0	13.11	AV	196.00	200	Vertical	Pass
4	4844.600	49.51	-3.35	74.0	24.49	Peak	174.00	200	Vertical	Pass
4**	4844.600	40.36	-3.35	54.0	13.64	AV	174.00	200	Vertical	Pass
5	6979.200	53.94	-0.34	74.0	20.06	Peak	30.00	400	Vertical	Pass
5**	6979.200	43.74	-0.34	54.0	10.26	AV	30.00	400	Vertical	Pass
6	14832.412	54.64	4.69	74.0	19.36	Peak	44.00	300	Vertical	Pass
6**	14832.412	45.39	4.69	54.0	8.61	AV	44.00	300	Vertical	Pass

GFSK (BLE 2Mbps) LOW CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1664.300	42.17	-17.33	74.0	31.83	Peak	215.00	200	Horizontal	Pass
1**	1664.300	32.19	-17.33	54.0	21.81	AV	215.00	200	Horizontal	Pass
2	2404.600	86.38	-13.22	74.0	-12.38	Peak	168.00	150	Horizontal	N/A
2**	2404.600	83.72	-13.22	54.0	-29.72	AV	168.00	150	Horizontal	N/A
3	2983.900	50.77	-10.16	74.0	23.23	Peak	302.00	150	Horizontal	Pass
3**	2983.900	40.97	-10.16	54.0	13.03	AV	302.00	150	Horizontal	Pass
4	4877.400	49.93	-3.45	74.0	24.07	Peak	206.00	300	Horizontal	Pass
4**	4877.400	40.47	-3.45	54.0	13.53	AV	206.00	300	Horizontal	Pass
5	6959.400	53.29	-0.43	74.0	20.71	Peak	284.00	200	Horizontal	Pass
5**	6959.400	43.34	-0.43	54.0	10.66	AV	284.00	200	Horizontal	Pass
6	14773.613	53.94	4.91	74.0	20.06	Peak	0.00	200	Horizontal	Pass
6**	14773.613	43.46	4.91	54.0	10.54	AV	0.00	200	Horizontal	Pass

GFSK (BLE 2Mbps) LOW CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1641.300	42.04	-17.59	74.0	31.96	Peak	230.00	300	Vertical	Pass
1**	1641.300	32.71	-17.59	54.0	21.29	AV	230.00	300	Vertical	Pass
2	2404.500	89.33	-13.22	74.0	-15.33	Peak	68.00	200	Vertical	N/A
2**	2404.500	87.71	-13.22	54.0	-33.71	AV	68.00	200	Vertical	N/A
3	2975.900	50.55	-10.17	74.0	23.45	Peak	350.00	200	Vertical	Pass
3**	2975.900	41.28	-10.17	54.0	12.72	AV	350.00	200	Vertical	Pass
4	4812.400	49.76	-3.46	74.0	24.24	Peak	184.00	100	Vertical	Pass
4**	4812.400	40.22	-3.46	54.0	13.78	AV	184.00	100	Vertical	Pass
5	6975.000	52.71	-0.33	74.0	21.29	Peak	358.00	100	Vertical	Pass
5**	6975.000	43.42	-0.33	54.0	10.58	AV	358.00	100	Vertical	Pass
6	16115.775	53.82	5.69	74.0	20.18	Peak	135.00	150	Vertical	Pass
6**	16115.775	44.51	5.69	54.0	9.49	AV	135.00	150	Vertical	Pass

GFSK (BLE 2Mbps) MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1698.100	41.86	-17.32	74.0	32.14	Peak	103.00	400	Horizontal	Pass
1**	1698.100	32.32	-17.32	54.0	21.68	AV	103.00	400	Horizontal	Pass
2	2439.600	84.80	-11.69	74.0	-10.80	Peak	163.00	150	Horizontal	N/A
2**	2439.600	81.64	-11.69	54.0	-27.64	AV	163.00	150	Horizontal	N/A
3	2974.700	50.88	-10.16	74.0	23.12	Peak	56.00	200	Horizontal	Pass
3**	2974.700	41.17	-10.16	54.0	12.83	AV	56.00	200	Horizontal	Pass
4	4828.000	50.55	-3.38	74.0	23.45	Peak	228.00	200	Horizontal	Pass
4**	4828.000	39.99	-3.38	54.0	14.01	AV	228.00	200	Horizontal	Pass
5	6357.000	53.53	-1.56	74.0	20.47	Peak	150.00	300	Horizontal	Pass
5**	6357.000	42.34	-1.56	54.0	11.66	AV	150.00	300	Horizontal	Pass
6	16093.987	53.47	5.56	74.0	20.53	Peak	87.00	200	Horizontal	Pass
6**	16093.987	44.44	5.56	54.0	9.56	AV	87.00	200	Horizontal	Pass

GFSK (BLE 2Mbps) MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1696.100	41.95	-17.46	74.0	32.05	Peak	357.00	200	Vertical	Pass
1**	1696.100	32.11	-17.46	54.0	21.89	AV	357.00	200	Vertical	Pass
2	2439.500	88.73	-11.70	74.0	-14.73	Peak	75.00	200	Vertical	N/A
2**	2439.500	86.28	-11.70	54.0	-32.28	AV	75.00	200	Vertical	N/A
3	2990.700	50.84	-10.00	74.0	23.16	Peak	360.00	200	Vertical	Pass
3**	2990.700	41.54	-10.00	54.0	12.46	AV	360.00	200	Vertical	Pass
4	4884.400	49.53	-3.55	74.0	24.47	Peak	310.00	300	Vertical	Pass
4**	4884.400	40.72	-3.55	54.0	13.28	AV	310.00	300	Vertical	Pass
5	6961.000	53.14	-0.58	74.0	20.86	Peak	56.00	200	Vertical	Pass
5**	6961.000	43.67	-0.58	54.0	10.33	AV	56.00	200	Vertical	Pass
6	16463.062	54.38	4.20	74.0	19.62	Peak	212.00	400	Vertical	Pass
6**	16463.062	44.32	4.20	54.0	9.68	AV	212.00	400	Vertical	Pass

GFSK (BLE 2Mbps) HIGH CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1679.700	41.67	-17.43	74.0	32.33	Peak	155.00	100	Horizontal	Pass
1**	1679.700	32.72	-17.43	54.0	21.28	AV	155.00	100	Horizontal	Pass
2	2478.500	83.36	-12.57	74.0	-9.36	Peak	81.00	100	Horizontal	N/A
2**	2478.500	81.90	-12.57	54.0	-27.90	AV	81.00	100	Horizontal	N/A
3	2995.200	50.76	-9.93	74.0	23.24	Peak	62.00	100	Horizontal	Pass
3**	2995.200	41.03	-9.93	54.0	12.97	AV	62.00	100	Horizontal	Pass
4	4881.800	49.66	-3.60	74.0	24.34	Peak	0.00	100	Horizontal	Pass
4**	4881.800	40.39	-3.60	54.0	13.61	AV	0.00	100	Horizontal	Pass
5	6506.800	52.54	-1.24	74.0	21.46	Peak	86.00	300	Horizontal	Pass
5**	6506.800	42.91	-1.24	54.0	11.09	AV	86.00	300	Horizontal	Pass
6	16047.787	53.85	6.11	74.0	20.15	Peak	116.00	150	Horizontal	Pass
6**	16047.787	44.23	6.11	54.0	9.77	AV	116.00	150	Horizontal	Pass

GFSK (BLE 2Mbps) HIGH CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1664.900	42.11	-17.30	74.0	31.89	Peak	196.00	400	Vertical	Pass
1**	1664.900	32.68	-17.30	54.0	21.32	AV	196.00	400	Vertical	Pass
2	2478.500	87.96	-12.57	74.0	-13.96	Peak	68.00	150	Vertical	N/A
2**	2478.500	86.23	-12.57	54.0	-32.23	AV	68.00	150	Vertical	N/A
3	2967.100	50.33	-10.20	74.0	23.67	Peak	49.00	100	Vertical	Pass
3**	2967.100	42.01	-10.20	54.0	11.99	AV	49.00	100	Vertical	Pass
4	4985.600	49.75	-3.43	74.0	24.25	Peak	252.00	100	Vertical	Pass
4**	4985.600	40.32	-3.43	54.0	13.68	AV	252.00	100	Vertical	Pass
5	6895.400	52.60	-0.42	74.0	21.40	Peak	0.00	400	Vertical	Pass
5**	6895.400	43.43	-0.42	54.0	10.57	AV	0.00	400	Vertical	Pass
6	16041.487	54.28	6.14	74.0	19.72	Peak	13.00	100	Vertical	Pass
6**	16041.487	44.27	6.14	54.0	9.73	AV	13.00	100	Vertical	Pass

A.7 Band Edge (Restricted-band band-edge)

Note ¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note ³: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ⁴: The Level (dBuV/m) has been corrected by factor.

Note ⁵: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

Test Data

GFSK (BLE 1Mbps) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2369.167	55.35	-0.74	74.0	18.65	Peak	140.00	200	Vertical	Pass
1**	2369.167	43.11	-0.74	54.0	10.89	AV	140.00	200	Vertical	Pass
2	2390.000	53.88	-1.15	74.0	20.12	Peak	132.00	200	Vertical	Pass
2**	2390.000	43.06	-1.15	54.0	10.94	AV	132.00	200	Vertical	Pass
3	2334.333	53.92	-0.74	74.0	20.08	Peak	182.00	150	Vertical	Pass
3**	2334.333	43.40	-0.74	54.0	10.60	AV	182.00	150	Vertical	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	53.56	-0.51	74.0	20.44	Peak	186.00	400	Vertical	Pass
1**	2483.500	43.20	-0.51	54.0	10.80	AV	186.00	400	Vertical	Pass
2	2498.650	55.42	-0.48	74.0	18.58	Peak	241.00	300	Vertical	Pass
2**	2498.650	43.36	-0.48	54.0	10.64	AV	241.00	300	Vertical	Pass
3	2499.750	54.21	-0.37	74.0	19.79	Peak	106.00	150	Vertical	Pass
3**	2499.750	43.67	-0.37	54.0	10.33	AV	106.00	150	Vertical	Pass

GFSK (BLE 2Mbps) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2356.333	55.07	-0.60	74.0	18.93	Peak	39.00	200	Vertical	Pass
1**	2356.333	43.40	-0.60	54.0	10.60	AV	39.00	200	Vertical	Pass
2	2390.000	53.26	-1.15	74.0	20.74	Peak	114.00	200	Vertical	Pass
2**	2390.000	43.10	-1.15	54.0	10.90	AV	114.00	200	Vertical	Pass
3	2366.500	53.96	-0.57	74.0	20.04	Peak	272.00	150	Vertical	Pass
3**	2366.500	43.49	-0.57	54.0	10.51	AV	272.00	150	Vertical	Pass

GFSK (BLE 2Mbps) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.10	-0.51	74.0	19.90	Peak	142.00	400	Vertical	Pass
1**	2483.500	43.36	-0.51	54.0	10.64	AV	142.00	400	Vertical	Pass
2	2499.650	55.32	-0.38	74.0	18.68	Peak	241.00	400	Vertical	Pass
2**	2499.650	43.49	-0.38	54.0	10.51	AV	241.00	400	Vertical	Pass
3	2484.050	53.93	-0.50	74.0	20.07	Peak	326.00	150	Vertical	Pass
3**	2484.050	43.58	-0.50	54.0	10.42	AV	326.00	150	Vertical	Pass

A.8 Power Spectral Density (PSD)

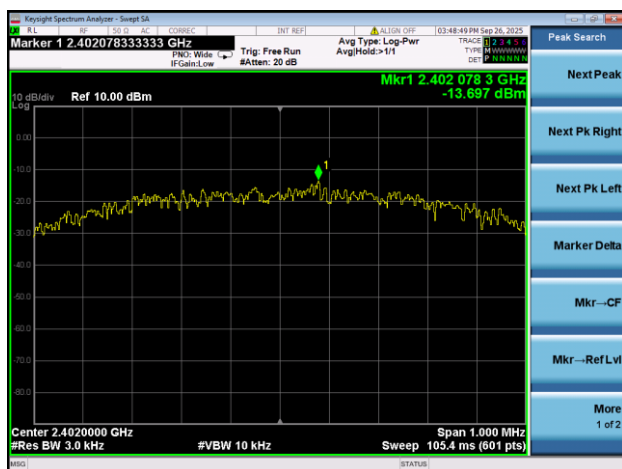
Test Data

GFSK (BLE 1Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-13.70	8	Pass
Middle Channel	-14.49	8	Pass
High Channel	-14.39	8	Pass

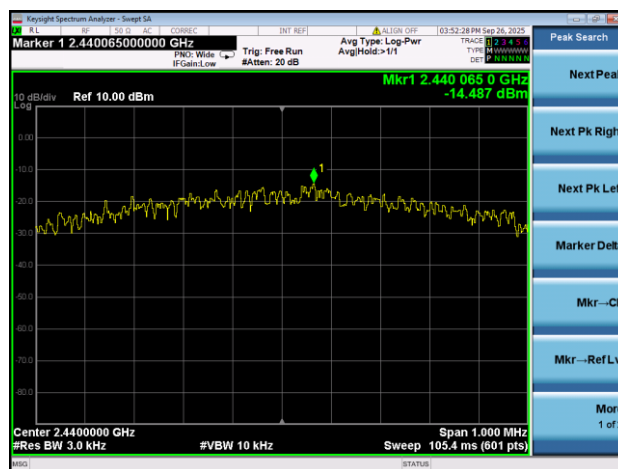
GFSK (BLE 2Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-16.64	8	Pass
Middle Channel	-17.09	8	Pass
High Channel	-17.78	8	Pass

Test Plots

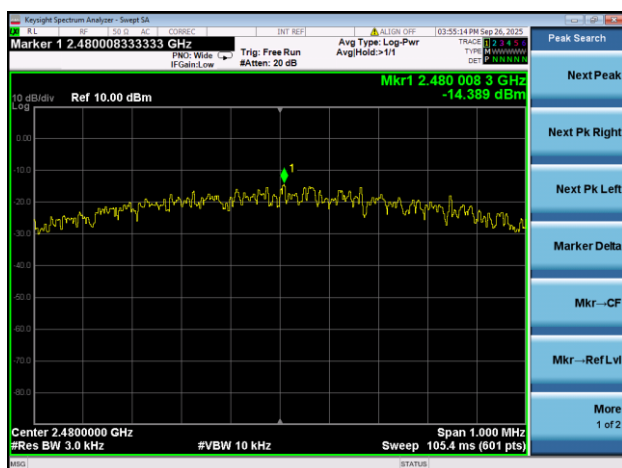
GFSK (BLE 1Mbps) LOW CHANNEL



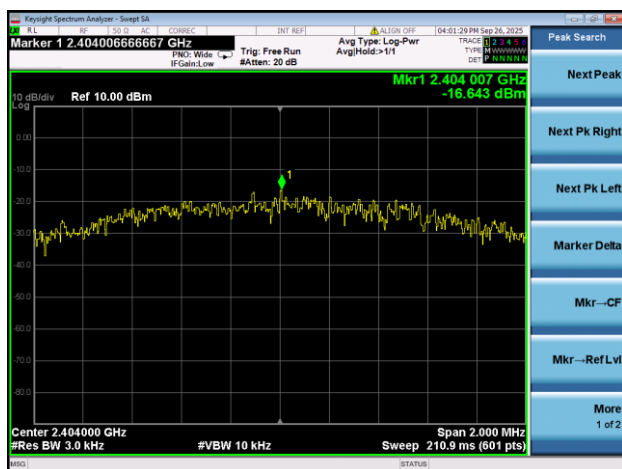
GFSK (BLE 1Mbps) MIDDLE CHANNEL



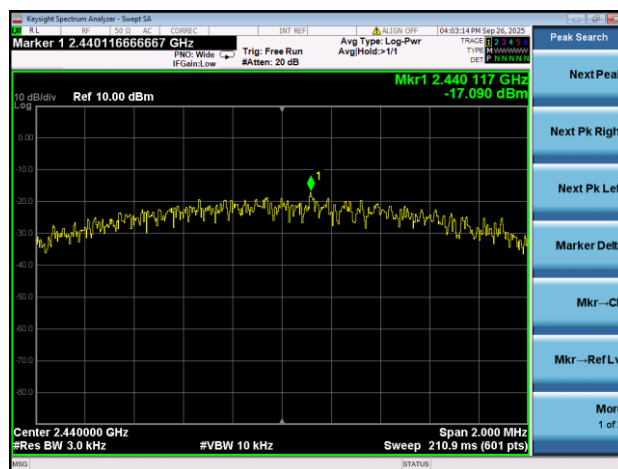
GFSK (BLE 1Mbps) HIGH CHANNEL



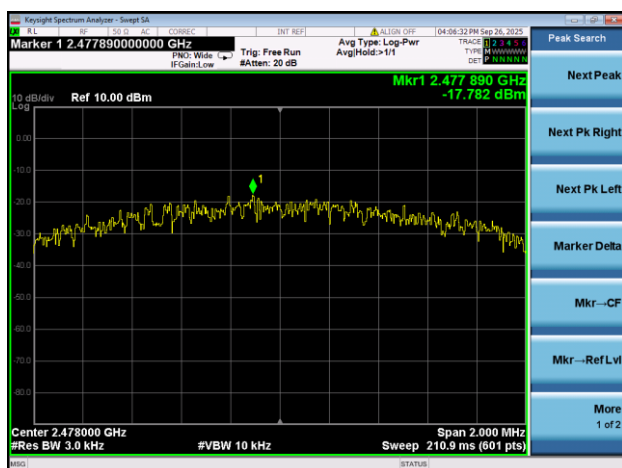
GFSK (BLE 2Mbps) LOW CHANNEL



GFSK (BLE 2Mbps) MIDDLE CHANNEL



GFSK (BLE 2Mbps) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2591126-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2591126-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2591126-AI.PDF”.

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--END OF REPORT--