

ANNEX A TEST RESULT

A.1 Output Power, E.I.R.P

Peak Power Test Data

Channel	Measured Output Peak Power		Limit		Verdict
	GFSK (BLE 1Mbps)		dBm	mW	
	dBm	mW			
Low Channel	2.85	1.93	30	1000	Pass
Middle Channel	2.70	1.86			Pass
High Channel	2.67	1.85			Pass

Channel	Measured Output Peak Power		Limit		Verdict
	GFSK (BLE 2Mbps)		dBm	mW	
	dBm	mW			
Low Channel	2.90	1.95	30	1000	Pass
Middle Channel	2.73	1.87			Pass
High Channel	2.71	1.87			Pass

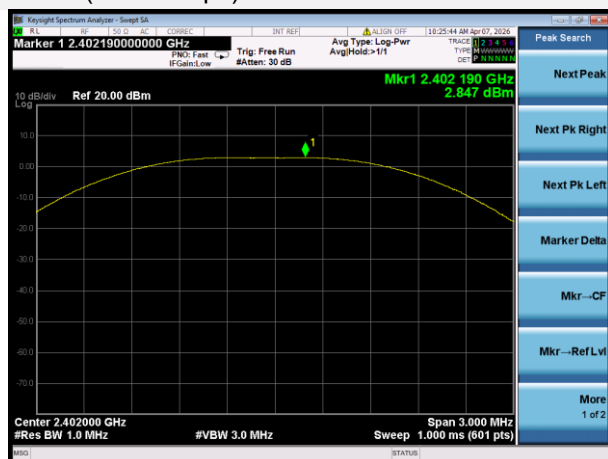
E.I.R.P Test Data (For ISCED)

Channel	E.I.R.P		Limit		Verdict
	GFSK (BLE 1Mbps)		dBm	mW	
	dBm	mW			
Low Channel	0.15	1.04	36	4000	Pass
Middle Channel	0.00	1.00			Pass
High Channel	-0.03	0.99			Pass

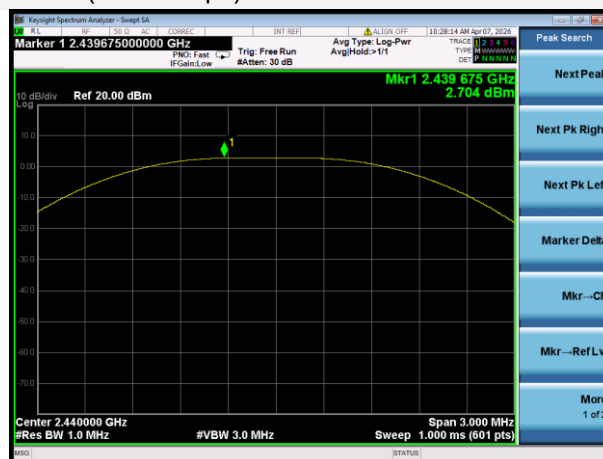
Channel	E.I.R.P		Limit		Verdict
	GFSK (BLE 2Mbps)		dBm	mW	
	dBm	mW			
Low Channel	0.20	1.05	36	4000	Pass
Middle Channel	0.03	1.01			Pass
High Channel	0.01	1.00			Pass

Test Plots

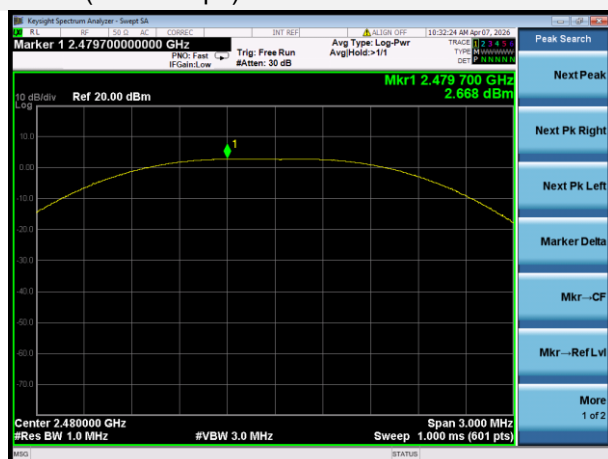
GFSK (BLE 1Mbps) LOW CHANNEL



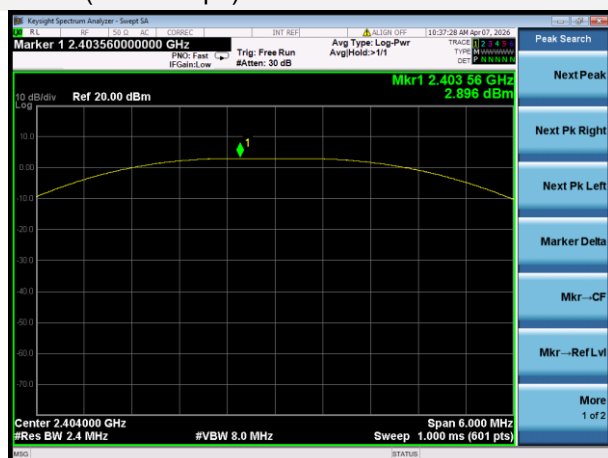
GFSK (BLE 1Mbps) MIDDLE CHANNEL



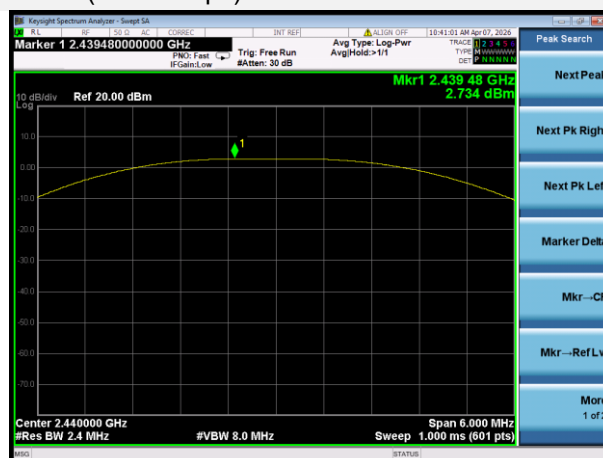
GFSK (BLE 1Mbps) HIGH CHANNEL



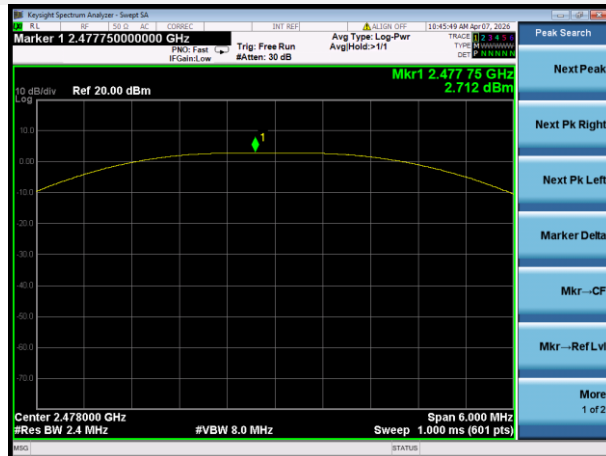
GFSK (BLE 2Mbps) LOW CHANNEL



GFSK (BLE 2Mbps) MIDDLE CHANNEL



GFSK (BLE 2Mbps) HIGH CHANNEL



A.2 Occupied Bandwidth

Test Data

Test Mode	GFSK (BLE 1Mbps)		
Channel	6 dB Bandwidth (kHz)	99% Bandwidth (kHz)	6 dB Bandwidth Limits (kHz)
Low Channel	667.500	1003.800	≥500
Middle Channel	674.800	1001.600	≥500
High Channel	689.900	999.730	≥500

Test Mode	GFSK (BLE 2Mbps)		
Channel	6 dB Bandwidth (kHz)	99% Bandwidth (kHz)	6 dB Bandwidth Limits (kHz)
Low Channel	1170.000	1984.000	≥500
Middle Channel	1170.000	1992.700	≥500
High Channel	1185.000	1968.700	≥500

Test Plots

6 dB Bandwidth

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



99% Bandwidth

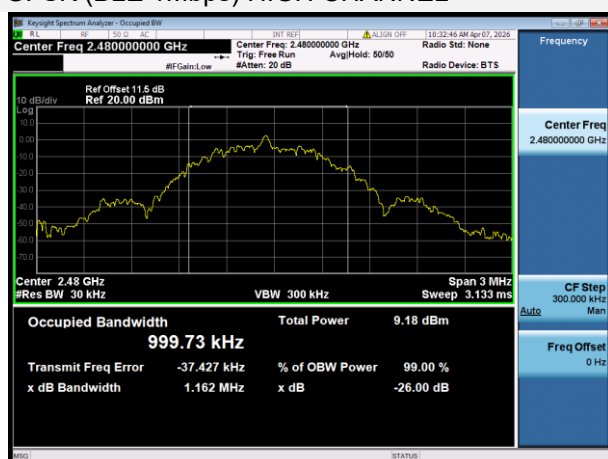
GFSK (BLE 1Mbps) LOW CHANNEL



GFSK (BLE 1Mbps) MIDDLE CHANNEL



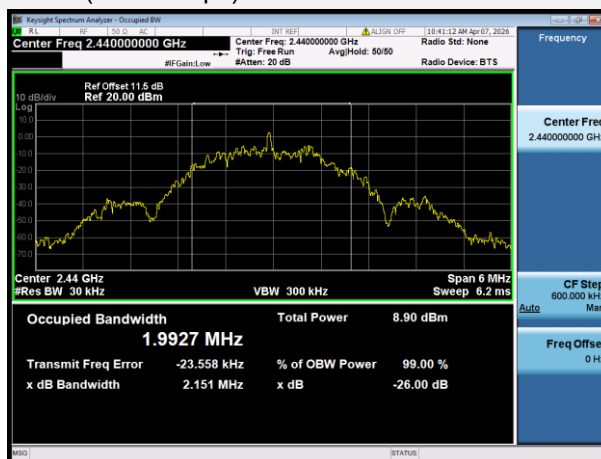
GFSK (BLE 1Mbps) HIGH CHANNEL



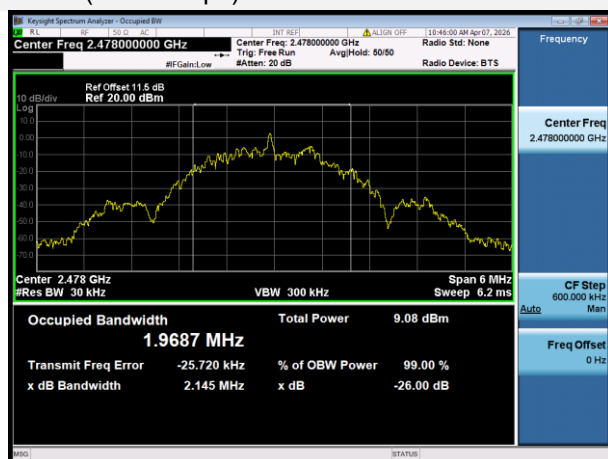
GFSK (BLE 2Mbps) LOW CHANNEL



GFSK (BLE 2Mbps) MIDDLE CHANNEL



GFSK (BLE 2Mbps) HIGH CHANNEL



A.3 Conducted Spurious Emissions

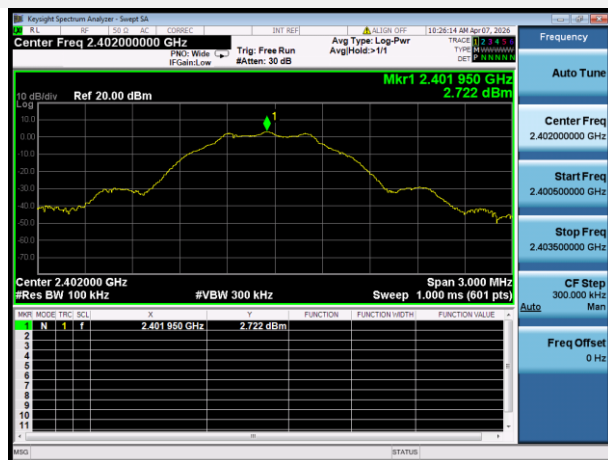
Test Data

GFSK (BLE 1Mbps)				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-32.96	2.72	-17.28	Pass
Middle Channel	-34.62	2.59	-17.41	Pass
High Channel	-33.65	2.56	-17.44	Pass

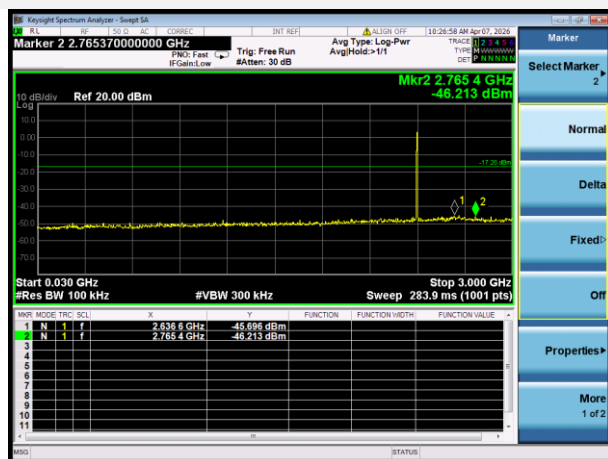
GFSK (BLE 2Mbps)				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-32.48	2.57	-17.43	Pass
Middle Channel	-34.13	2.68	-17.32	Pass
High Channel	-33.43	2.55	-17.45	Pass

Test Plots

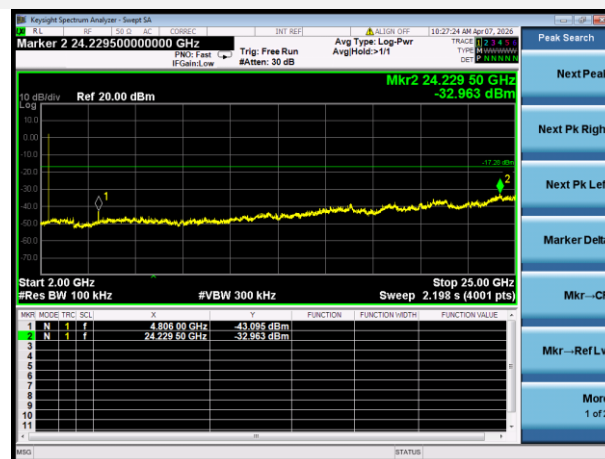
GFSK (BLE 1Mbps) LOW CHANNEL, CARRIER LEVEL



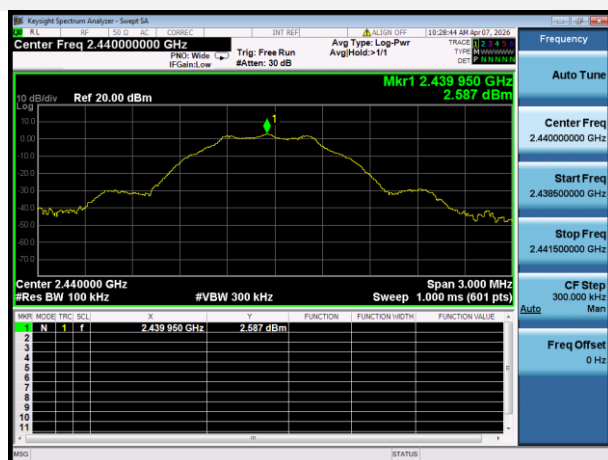
GFSK (BLE 1Mbps) LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



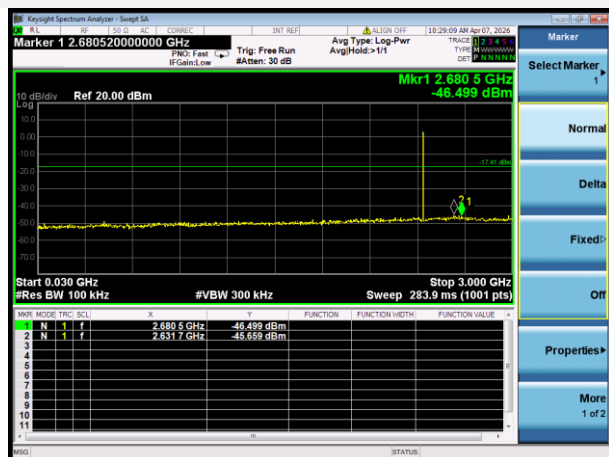
GFSK (BLE 1Mbps) LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



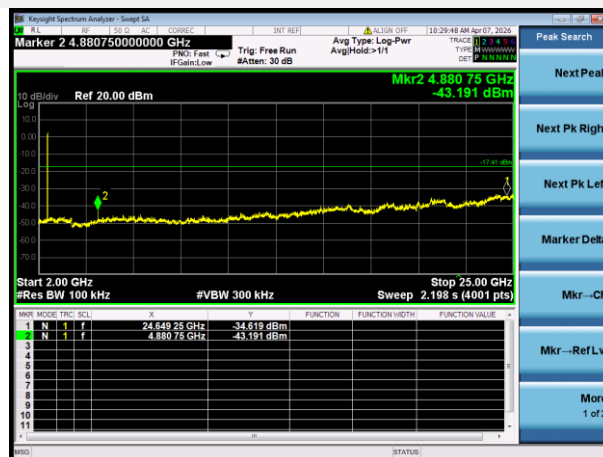
GFSK (BLE 1Mbps) MIDDLE CHANNEL, CARRIER LEVEL



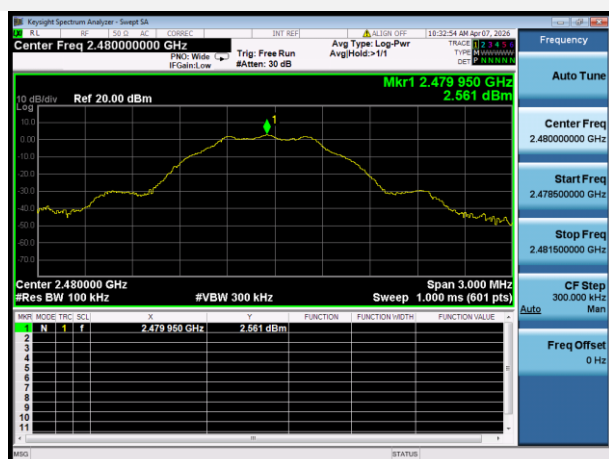
GFSK (BLE 1Mbps) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



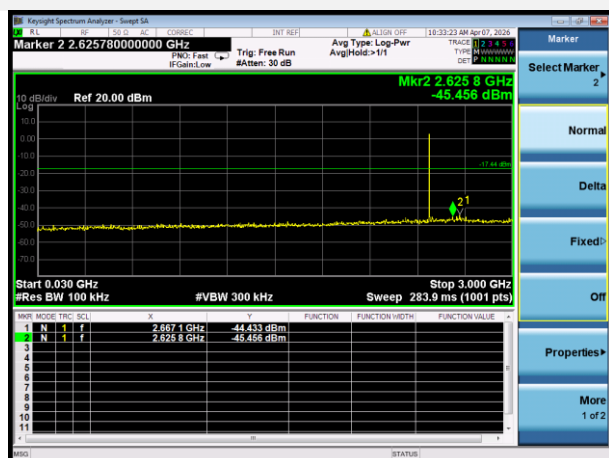
GFSK (BLE 1Mbps) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



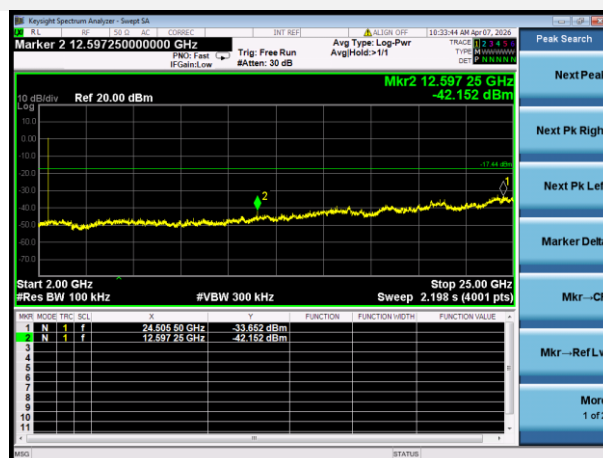
GFSK (BLE 1Mbps) HIGH CHANNEL, CARRIER LEVEL



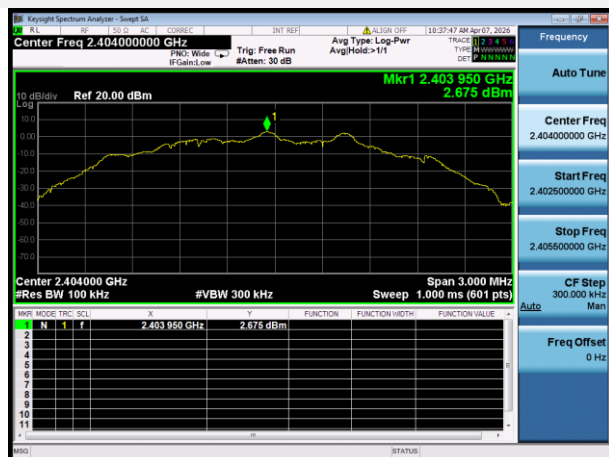
GFSK (BLE 1Mbps) HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



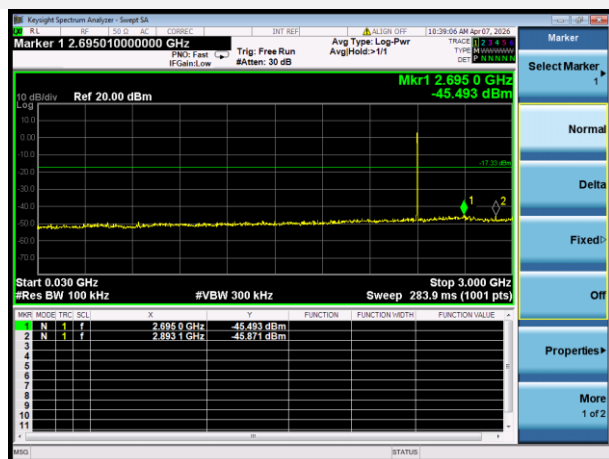
GFSK (BLE 1Mbps) HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



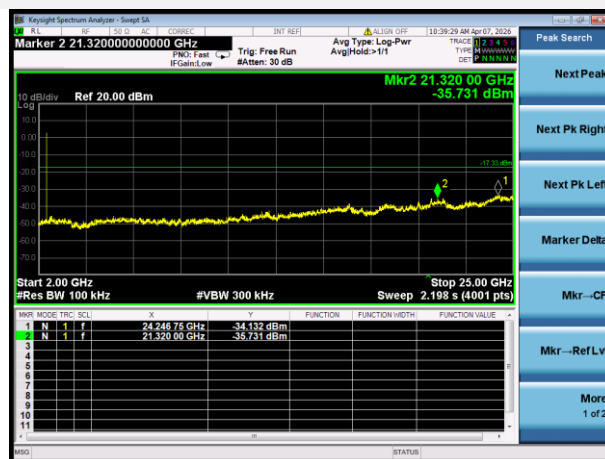
GFSK (BLE 2Mbps) LOW CHANNEL, CARRIER LEVEL



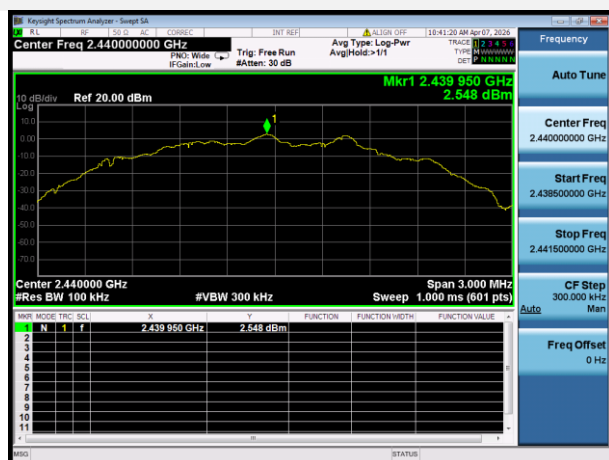
GFSK (BLE 2Mbps) LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



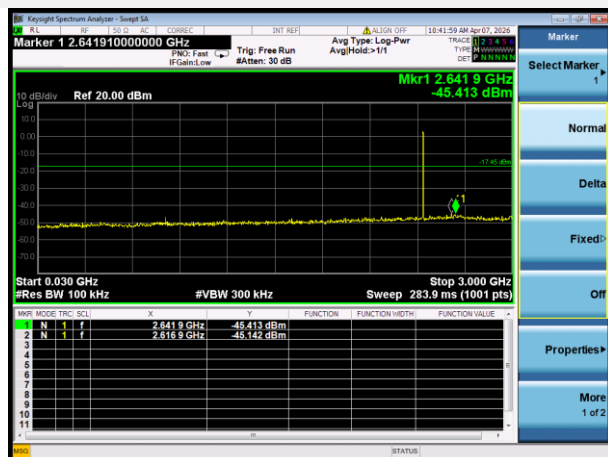
GFSK (BLE 2Mbps) LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



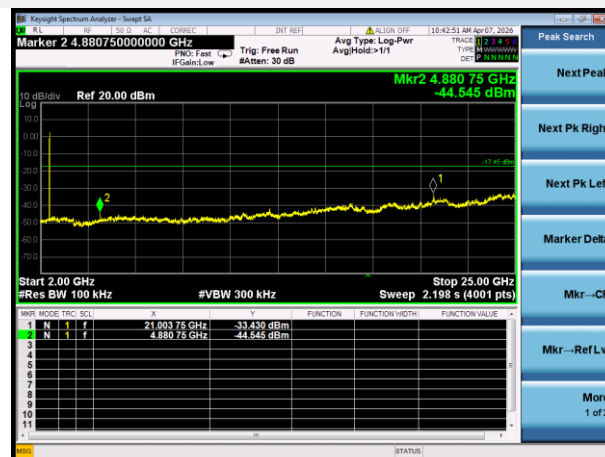
GFSK (BLE 2Mbps) MIDDLE CHANNEL, CARRIER LEVEL



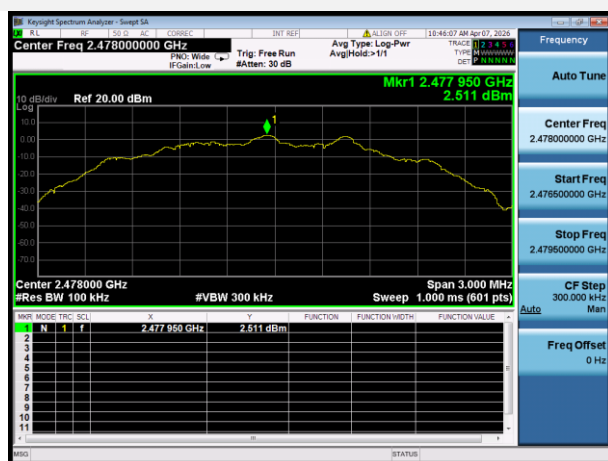
GFSK (BLE 2Mbps) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



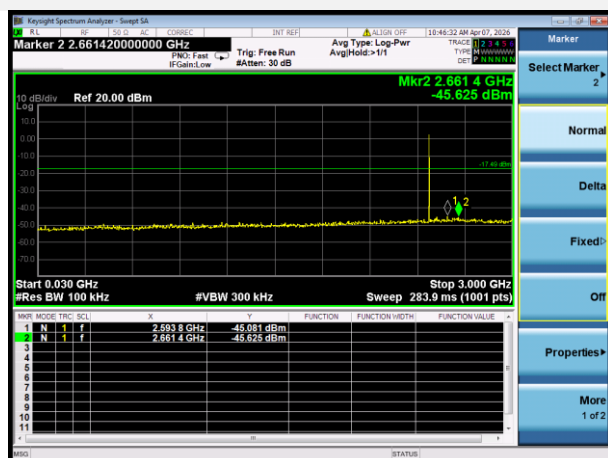
GFSK (BLE 2Mbps) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



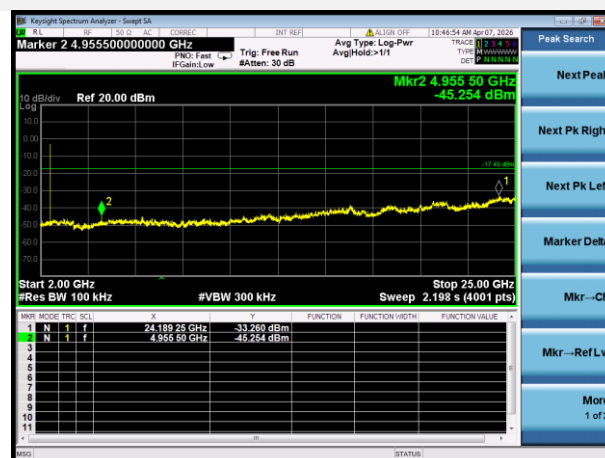
GFSK (BLE 2Mbps) HIGH CHANNEL, CARRIER LEVEL



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.

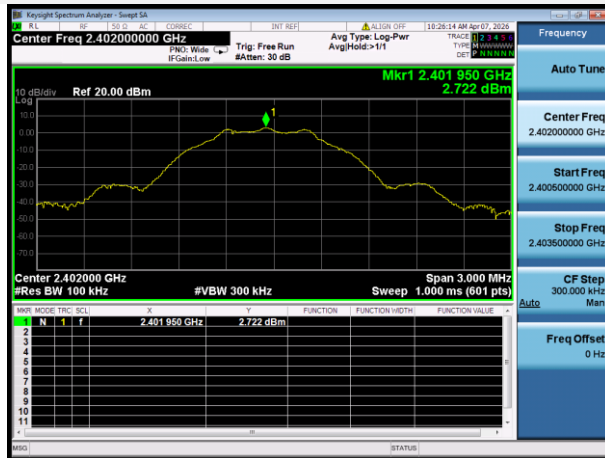
Test Data

GFSK (BLE 1Mbps)				
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-42.04	2.72	-17.28	Pass
High Channel	-47.55	2.56	-17.44	Pass

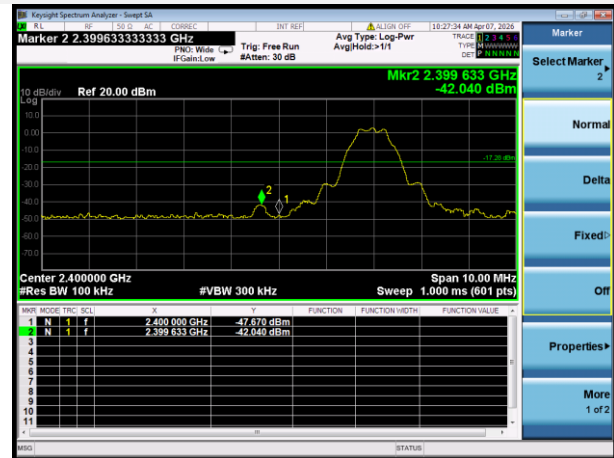
GFSK (BLE 2Mbps)				
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-47.53	2.57	-17.43	Pass
High Channel	-47.13	2.55	-17.45	Pass

Test Plots

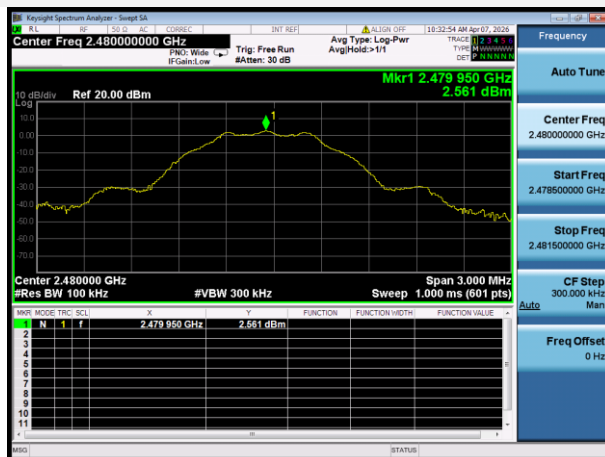
GFSK (BLE 1Mbps) LOW CHANNEL, CARRIER LEVEL



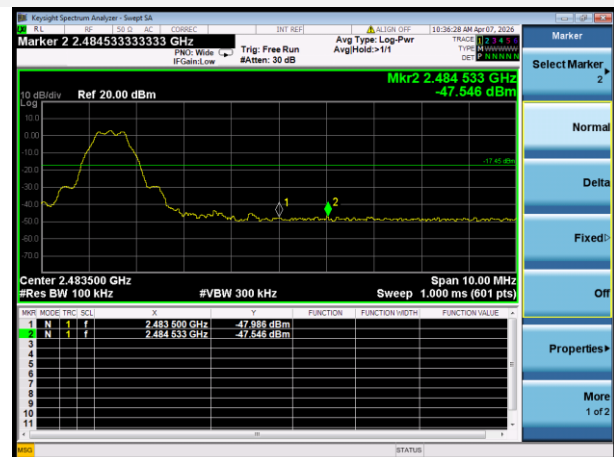
GFSK (BLE 1Mbps) LOW CHANNEL, BAND EDGE



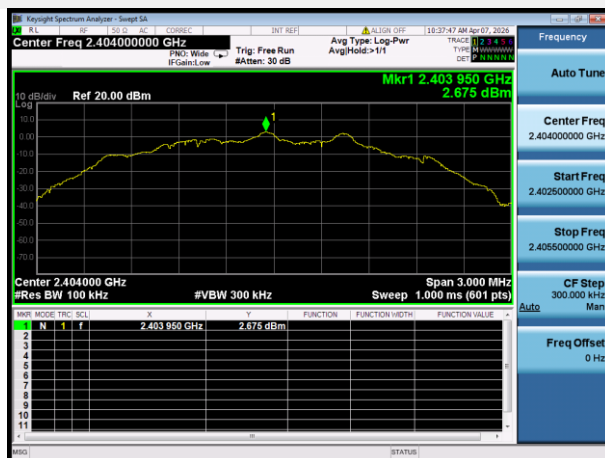
GFSK (BLE 1Mbps) HIGH CHANNEL, CARRIER LEVEL



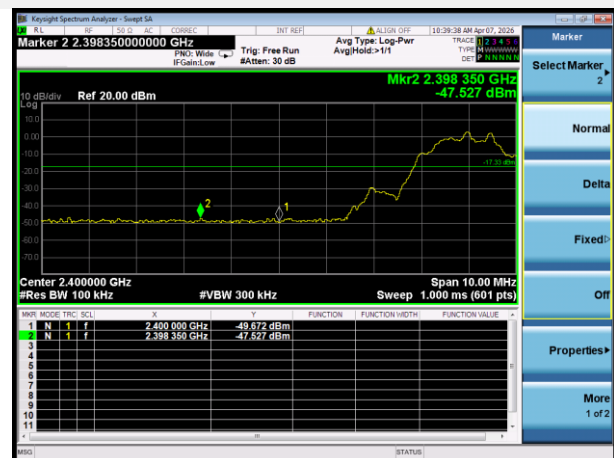
GFSK (BLE 1Mbps) HIGH CHANNEL, BAND EDGE

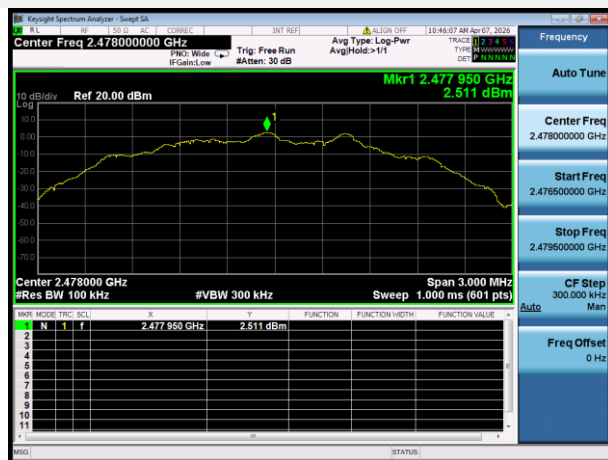
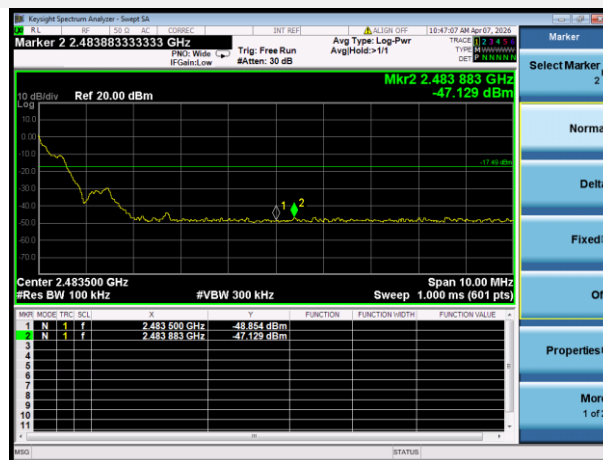


GFSK (BLE 2Mbps) LOW CHANNEL, CARRIER LEVEL



GFSK (BLE 2Mbps) LOW CHANNEL, BAND EDGE



GFSK (BLE 2Mbps) HIGH CHANNEL, CARRIER
LEVELGFSK (BLE 2Mbps) HIGH CHANNEL, BAND
EDGE

A.5 Conducted Emissions

Note: Not applicable.

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.

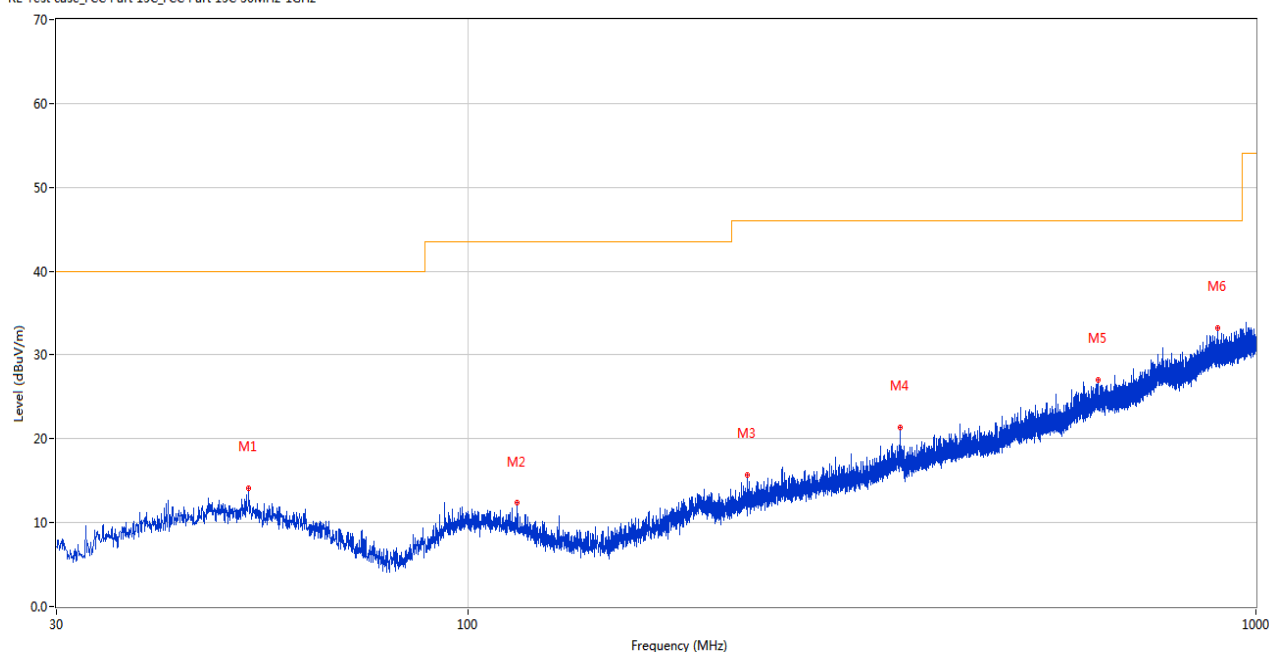
Note ⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and BLE 2M-Low channel mode is the worst.

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

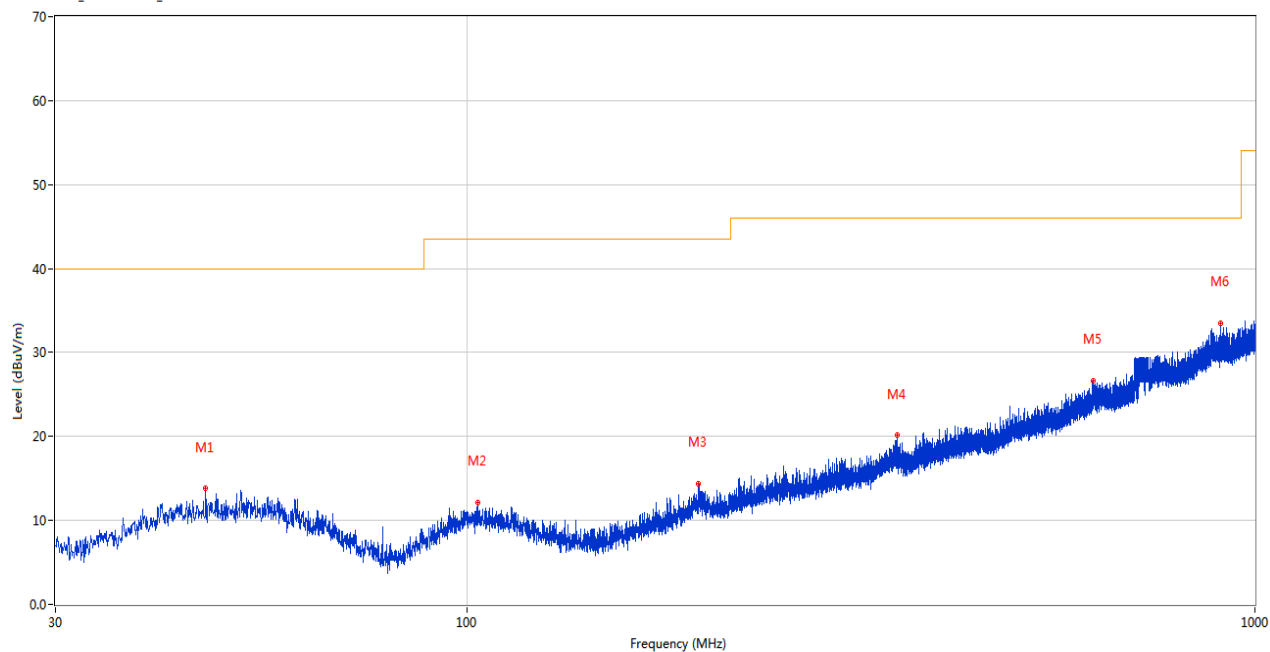
RE Test case_FCC Part 15C_FCC Part 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.601	14.17	-24.13	40.0	25.83	Peak	81.90	100	Horizontal	Pass
2	115.409	12.33	-26.38	43.5	31.17	Peak	27.80	100	Horizontal	Pass
3	226.037	15.67	-23.74	46.0	30.33	Peak	325.90	100	Horizontal	Pass
4	353.737	21.41	-19.17	46.0	24.59	Peak	161.70	100	Horizontal	Pass
5	629.799	27.00	-11.78	46.0	19.00	Peak	282.10	100	Horizontal	Pass
6	894.464	33.28	-6.16	46.0	12.72	Peak	52.30	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC Part 15C 30MHz-1GHz



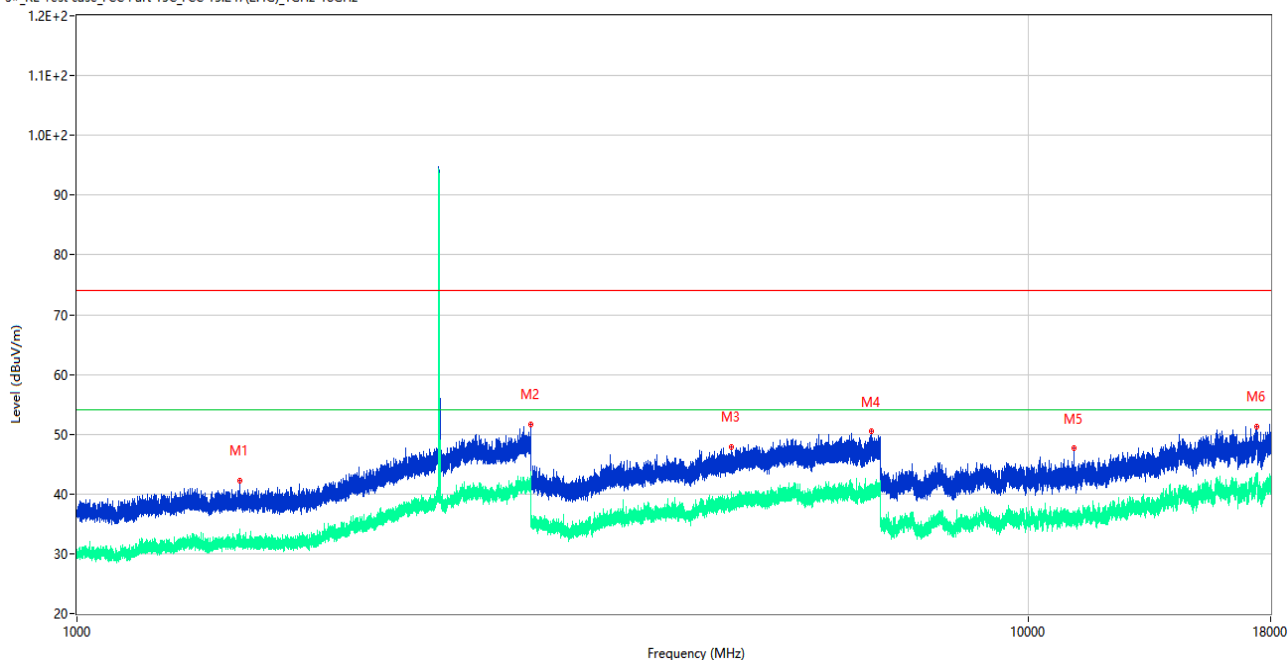
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.538	13.78	-24.23	40.0	26.22	Peak	328.10	100	Vertical	Pass
2	103.187	12.07	-25.61	43.5	31.43	Peak	171.10	100	Vertical	Pass
3	196.500	14.40	-24.15	43.5	29.10	Peak	198.10	100	Vertical	Pass
4	351.652	20.11	-19.18	46.0	25.89	Peak	173.70	100	Vertical	Pass
5	622.815	26.57	-11.98	46.0	19.43	Peak	48.10	100	Vertical	Pass
6	904.746	33.53	-6.03	46.0	12.47	Peak	234.80	100	Vertical	Pass

Note¹: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note²: 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

3#_RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1482.272	42.56	74.0	31.44	Peak	107.00	200	Horizontal	Pass
1**	1482.272	32.35	54.0	21.65	AV	107.00	200	Horizontal	Pass
2	2995.264	51.78	74.0	22.22	Peak	336.00	200	Horizontal	Pass
2**	2995.264	46.04	54.0	7.96	AV	336.00	200	Horizontal	Pass
3	4882.172	48.13	74.0	25.88	Peak	192.00	200	Horizontal	Pass
3**	4882.172	39.03	54.0	14.97	AV	192.00	200	Horizontal	Pass
4	6841.030	50.55	74.0	23.45	Peak	95.00	300	Horizontal	Pass
4**	6841.030	40.95	54.0	13.05	AV	95.00	300	Horizontal	Pass
5	11185.920	47.63	74.0	26.37	Peak	197.00	400	Horizontal	Pass
5**	11185.920	35.89	54.0	18.11	AV	197.00	400	Horizontal	Pass
6	17402.263	51.53	74.0	22.48	Peak	82.00	300	Horizontal	Pass
6**	17402.263	42.11	54.0	11.90	AV	82.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.768	44.62	74.0	29.38	Peak	140.00	300	Vertical	Pass
1**	1161.768	32.76	54.0	21.24	AV	140.00	300	Vertical	Pass
2	2994.924	50.88	74.0	23.12	Peak	186.00	300	Vertical	Pass
2**	2994.924	39.70	54.0	14.30	AV	186.00	300	Vertical	Pass
3	6801.450	52.65	74.0	21.35	Peak	46.00	200	Vertical	Pass
3**	6801.450	43.34	54.0	10.66	AV	46.00	200	Vertical	Pass
4	7966.065	56.43	74.0	17.57	Peak	180.00	100	Vertical	Pass
4**	7966.065	43.69	54.0	10.31	AV	180.00	100	Vertical	Pass
5	12492.788	49.24	74.0	24.76	Peak	248.00	400	Vertical	Pass
5**	12492.788	40.25	54.0	13.75	AV	248.00	400	Vertical	Pass
6	17101.903	52.45	74.0	21.55	Peak	250.00	400	Vertical	Pass
6**	17101.903	43.58	54.0	10.42	AV	250.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1486.332	41.64	74.0	32.36	Peak	312.00	200	Horizontal	Pass
1**	1486.332	32.07	54.0	21.93	AV	312.00	200	Horizontal	Pass
2	3000.737	51.52	74.0	22.48	Peak	172.00	100	Horizontal	Pass
2**	3000.737	41.27	54.0	12.73	AV	172.00	100	Horizontal	Pass
3	4879.103	48.07	74.0	25.94	Peak	64.00	200	Horizontal	Pass
3**	4879.103	38.36	54.0	15.64	AV	64.00	200	Horizontal	Pass
4	6839.906	50.53	74.0	23.47	Peak	109.00	400	Horizontal	Pass
4**	6839.906	40.44	54.0	13.56	AV	109.00	400	Horizontal	Pass
5	11190.695	47.07	74.0	26.93	Peak	109.00	400	Horizontal	Pass
5**	11190.695	35.62	54.0	18.38	AV	109.00	400	Horizontal	Pass
6	17401.901	50.71	74.0	23.30	Peak	277.00	300	Horizontal	Pass
6**	17401.901	41.46	54.0	12.55	AV	277.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1167.962	44.10	74.0	29.90	Peak	343.00	200	Vertical	Pass
1**	1167.962	32.09	54.0	21.91	AV	343.00	200	Vertical	Pass
2	2993.055	50.10	74.0	23.90	Peak	324.00	300	Vertical	Pass
2**	2993.055	39.24	54.0	14.76	AV	324.00	300	Vertical	Pass
3	6803.976	52.17	74.0	21.83	Peak	348.00	200	Vertical	Pass
3**	6803.976	42.89	54.0	11.11	AV	348.00	200	Vertical	Pass
4	7965.919	55.58	74.0	18.42	Peak	61.00	100	Vertical	Pass
4**	7965.919	43.67	54.0	10.33	AV	61.00	100	Vertical	Pass
5	12489.644	48.66	74.0	25.34	Peak	198.00	100	Vertical	Pass
5**	12489.644	40.05	54.0	13.95	AV	198.00	100	Vertical	Pass
6	17101.628	52.21	74.0	21.79	Peak	191.00	200	Vertical	Pass
6**	17101.628	43.46	54.0	10.54	AV	191.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1486.296	42.04	74.0	31.96	Peak	175.00	200	Horizontal	Pass
1**	1486.296	31.47	54.0	22.53	AV	175.00	200	Horizontal	Pass
2	3001.185	51.51	74.0	22.49	Peak	140.00	300	Horizontal	Pass
2**	3001.185	41.28	54.0	12.72	AV	140.00	300	Horizontal	Pass
3	4880.354	47.36	74.0	26.65	Peak	40.00	200	Horizontal	Pass
3**	4880.354	38.47	54.0	15.53	AV	40.00	200	Horizontal	Pass
4	6843.515	50.16	74.0	23.84	Peak	222.00	100	Horizontal	Pass
4**	6843.515	40.44	54.0	13.56	AV	222.00	100	Horizontal	Pass
5	11187.340	47.28	74.0	26.72	Peak	94.00	200	Horizontal	Pass
5**	11187.340	35.75	54.0	18.25	AV	94.00	200	Horizontal	Pass
6	17405.895	50.70	74.0	23.31	Peak	165.00	400	Horizontal	Pass
6**	17405.895	41.45	54.0	12.56	AV	165.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1165.909	44.60	74.0	29.40	Peak	341.00	400	Vertical	Pass
1**	1165.909	32.68	54.0	21.32	AV	341.00	400	Vertical	Pass
2	2992.327	50.82	74.0	23.18	Peak	170.00	100	Vertical	Pass
2**	2992.327	39.64	54.0	14.36	AV	170.00	100	Vertical	Pass
3	6805.881	52.57	74.0	21.43	Peak	74.00	200	Vertical	Pass
3**	6805.881	43.30	54.0	10.70	AV	74.00	200	Vertical	Pass
4	7965.801	56.35	74.0	17.65	Peak	254.00	200	Vertical	Pass
4**	7965.801	43.69	54.0	10.31	AV	254.00	200	Vertical	Pass
5	12495.985	49.23	74.0	24.77	Peak	34.00	400	Vertical	Pass
5**	12495.985	40.20	54.0	13.80	AV	34.00	400	Vertical	Pass
6	17097.355	52.43	74.0	21.58	Peak	271.00	200	Vertical	Pass
6**	17097.355	43.57	54.0	10.43	AV	271.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1288.671	42.40	74.0	31.60	Peak	283.00	300	Horizontal	Pass
1**	1288.671	31.35	54.0	22.65	AV	283.00	300	Horizontal	Pass
2	2773.162	51.22	74.0	22.78	Peak	71.00	100	Horizontal	Pass
2**	2773.162	41.59	54.0	12.41	AV	71.00	100	Horizontal	Pass
3	5166.945	47.93	74.0	26.08	Peak	108.00	200	Horizontal	Pass
3**	5166.945	38.75	54.0	15.25	AV	108.00	200	Horizontal	Pass
4	6808.195	50.02	74.0	23.98	Peak	325.00	400	Horizontal	Pass
4**	6808.195	40.43	54.0	13.57	AV	325.00	400	Horizontal	Pass
5	13468.239	47.53	74.0	26.47	Peak	275.00	300	Horizontal	Pass
5**	13468.239	34.96	54.0	19.04	AV	275.00	300	Horizontal	Pass
6	17468.389	50.59	74.0	23.42	Peak	160.00	200	Horizontal	Pass
6**	17468.389	41.71	54.0	12.30	AV	160.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1284.702	44.58	74.0	29.42	Peak	60.00	300	Vertical	Pass
1**	1284.702	32.68	54.0	21.32	AV	60.00	300	Vertical	Pass
2	2770.497	50.87	74.0	23.13	Peak	233.00	200	Vertical	Pass
2**	2770.497	39.67	54.0	14.33	AV	233.00	200	Vertical	Pass
3	5170.345	52.62	74.0	21.38	Peak	308.00	200	Vertical	Pass
3**	5170.345	43.29	54.0	10.71	AV	308.00	200	Vertical	Pass
4	6806.212	56.35	74.0	17.66	Peak	18.00	400	Vertical	Pass
4**	6806.212	43.64	54.0	10.36	AV	18.00	400	Vertical	Pass
5	13470.872	49.22	74.0	24.78	Peak	266.00	400	Vertical	Pass
5**	13470.872	40.23	54.0	13.77	AV	266.00	400	Vertical	Pass
6	17465.413	52.36	74.0	21.65	Peak	68.00	100	Vertical	Pass
6**	17465.413	43.55	54.0	10.45	AV	68.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1283.813	42.30	74.0	31.70	Peak	144.00	300	Horizontal	Pass
1**	1283.813	32.08	54.0	21.92	AV	144.00	300	Horizontal	Pass
2	2767.718	51.20	74.0	22.80	Peak	328.00	200	Horizontal	Pass
2**	2767.718	41.61	54.0	12.39	AV	328.00	200	Horizontal	Pass
3	5171.061	47.44	74.0	26.57	Peak	23.00	200	Horizontal	Pass
3**	5171.061	39.00	54.0	15.00	AV	23.00	200	Horizontal	Pass
4	6808.309	50.25	74.0	23.75	Peak	183.00	200	Horizontal	Pass
4**	6808.309	40.56	54.0	13.44	AV	183.00	200	Horizontal	Pass
5	13470.018	46.74	74.0	27.26	Peak	315.00	400	Horizontal	Pass
5**	13470.018	35.57	54.0	18.43	AV	315.00	400	Horizontal	Pass
6	17466.551	50.79	74.0	23.22	Peak	223.00	100	Horizontal	Pass
6**	17466.551	42.05	54.0	11.96	AV	223.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1285.495	44.56	74.0	29.44	Peak	246.00	100	Vertical	Pass
1**	1285.495	32.69	54.0	21.31	AV	246.00	100	Vertical	Pass
2	2768.912	50.86	74.0	23.14	Peak	30.00	200	Vertical	Pass
2**	2768.912	39.64	54.0	14.36	AV	30.00	200	Vertical	Pass
3	5166.102	52.55	74.0	21.45	Peak	74.00	200	Vertical	Pass
3**	5166.102	43.32	54.0	10.68	AV	74.00	200	Vertical	Pass
4	6803.220	56.35	74.0	17.65	Peak	22.00	300	Vertical	Pass
4**	6803.220	43.65	54.0	10.35	AV	22.00	300	Vertical	Pass
5	13463.930	49.21	74.0	24.79	Peak	190.00	200	Vertical	Pass
5**	13463.930	40.23	54.0	13.77	AV	190.00	200	Vertical	Pass
6	17464.331	52.36	74.0	21.64	Peak	107.00	300	Vertical	Pass
6**	17464.331	43.51	54.0	10.49	AV	107.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1284.159	41.76	74.0	32.24	Peak	202.00	400	Horizontal	Pass
1**	1284.159	32.29	54.0	21.71	AV	202.00	400	Horizontal	Pass
2	2769.988	50.99	74.0	23.01	Peak	314.00	200	Horizontal	Pass
2**	2769.988	41.66	54.0	12.34	AV	314.00	200	Horizontal	Pass
3	5394.966	48.11	74.0	25.90	Peak	243.00	200	Horizontal	Pass
3**	5394.966	38.84	54.0	15.16	AV	243.00	200	Horizontal	Pass
4	6516.029	50.35	74.0	23.65	Peak	350.00	400	Horizontal	Pass
4**	6516.029	40.40	54.0	13.60	AV	350.00	400	Horizontal	Pass
5	13353.025	46.63	74.0	27.37	Peak	331.00	200	Horizontal	Pass
5**	13353.025	35.65	54.0	18.35	AV	331.00	200	Horizontal	Pass
6	17438.906	51.05	74.0	22.96	Peak	277.00	300	Horizontal	Pass
6**	17438.906	41.77	54.0	12.24	AV	277.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1282.153	44.59	74.0	29.41	Peak	110.00	300	Vertical	Pass
1**	1282.153	32.70	54.0	21.30	AV	110.00	300	Vertical	Pass
2	2773.242	50.82	74.0	23.18	Peak	185.00	100	Vertical	Pass
2**	2773.242	39.61	54.0	14.39	AV	185.00	100	Vertical	Pass
3	5283.674	52.56	74.0	21.44	Peak	304.00	200	Vertical	Pass
3**	5283.674	43.30	54.0	10.70	AV	304.00	200	Vertical	Pass
4	6655.167	56.35	74.0	17.65	Peak	106.00	100	Vertical	Pass
4**	6655.167	43.62	54.0	10.38	AV	106.00	100	Vertical	Pass
5	13304.000	49.21	74.0	24.79	Peak	59.00	400	Vertical	Pass
5**	13304.000	40.22	54.0	13.78	AV	59.00	400	Vertical	Pass
6	17423.288	52.37	74.0	21.63	Peak	136.00	300	Vertical	Pass
6**	17423.288	43.48	54.0	10.52	AV	136.00	300	Vertical	Pass

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

Note¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note²: 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.

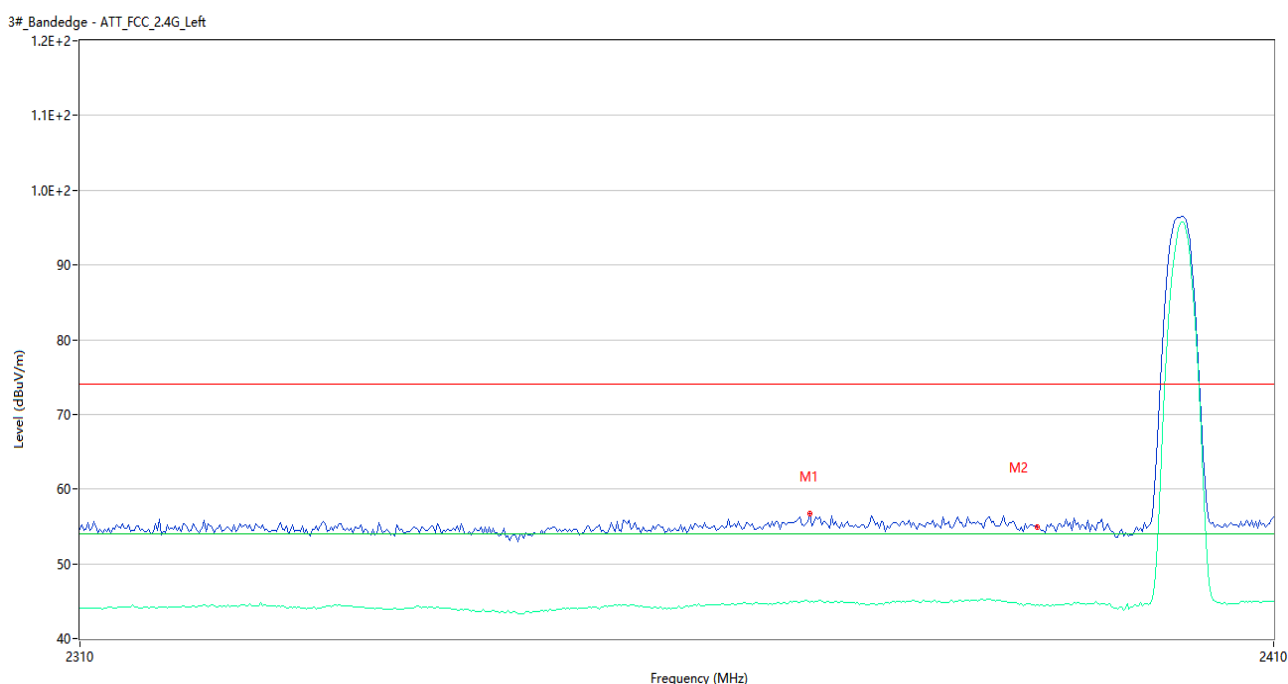
Note³: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note⁴: The Level (dBuV/m) has been corrected by factor.

Note⁵: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

Test Data and Plots

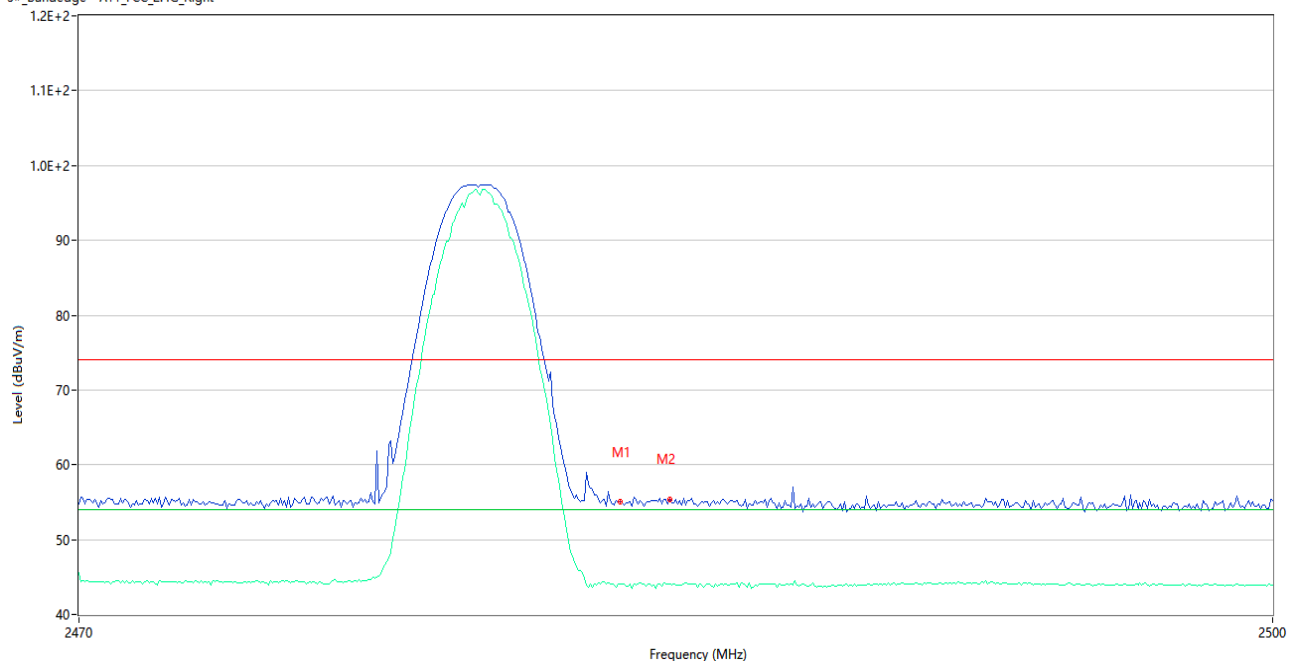
GFSK (BLE 1Mbps) LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2369.798	56.32	74.0	17.68	Peak	57.00	100	Horizontal	Pass
1**	2369.798	43.65	54.0	10.35	AV	57.00	100	Horizontal	Pass
2	2390.000	52.48	74.0	21.52	Peak	271.00	100	Horizontal	Pass
2**	2390.000	42.59	54.0	11.41	AV	271.00	100	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL

3#_Bandedge - ATT_FCC_2.4G_Right



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.33	74.0	19.67	Peak	350.00	100	Horizontal	Pass
1**	2483.500	41.99	54.0	12.01	AV	350.00	100	Horizontal	Pass
2	2496.924	56.33	74.0	17.67	Peak	61.00	100	Horizontal	Pass
2**	2496.924	43.43	54.0	10.57	AV	61.00	100	Horizontal	Pass

GFSK (BLE 2Mbps) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2349.261	53.99	74.0	20.01	Peak	117.00	300	Horizontal	Pass
1**	2349.261	42.46	54.0	11.54	AV	117.00	300	Horizontal	Pass
2	2390.000	53.24	74.0	20.76	Peak	281.00	300	Horizontal	Pass
2**	2390.000	41.36	54.0	12.64	AV	281.00	300	Horizontal	Pass

GFSK (BLE 2Mbps) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.81	74.0	19.19	Peak	83.00	300	Horizontal	Pass
1**	2483.500	42.70	54.0	11.30	AV	83.00	300	Horizontal	Pass
2	2489.130	55.45	74.0	18.55	Peak	324.00	300	Horizontal	Pass
2**	2489.130	43.42	54.0	10.58	AV	324.00	300	Horizontal	Pass

A.8 Power Spectral Density (PSD)

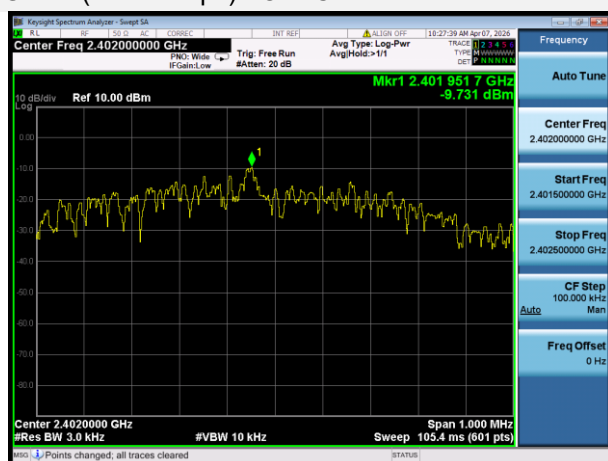
Test Data

GFSK (BLE 1Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-9.73	8	Pass
Middle Channel	-9.96	8	Pass
High Channel	-10.28	8	Pass

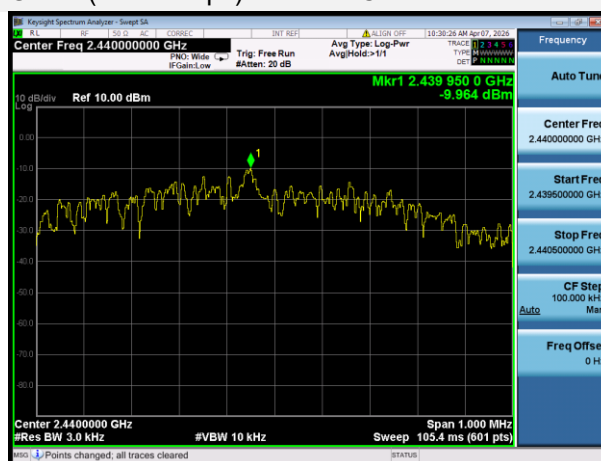
GFSK (BLE 2Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-10.38	8	Pass
Middle Channel	-10.82	8	Pass
High Channel	-11.04	8	Pass

Test Plots

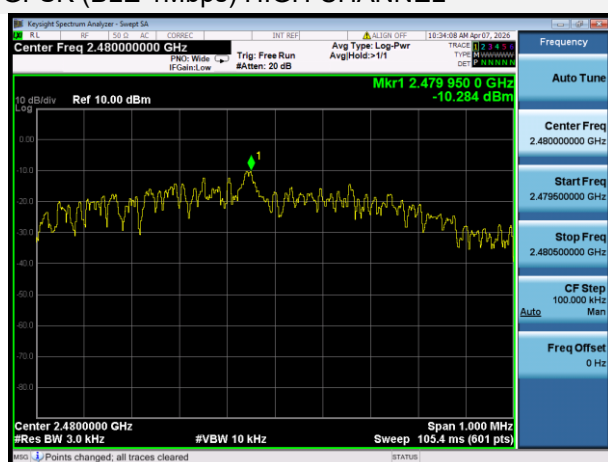
GFSK (BLE 1Mbps) LOW CHANNEL



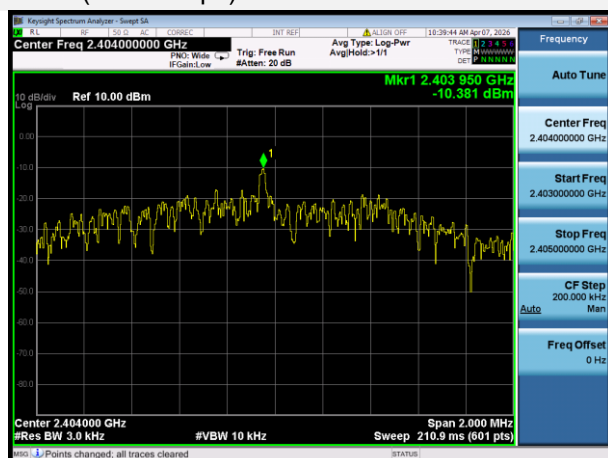
GFSK (BLE 1Mbps) MIDDLE CHANNEL



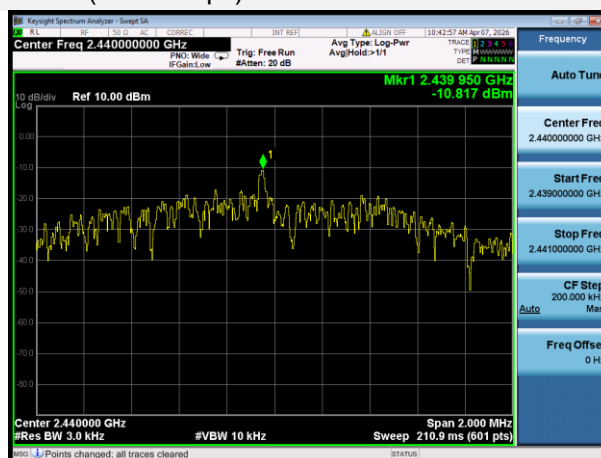
GFSK (BLE 1Mbps) HIGH CHANNEL



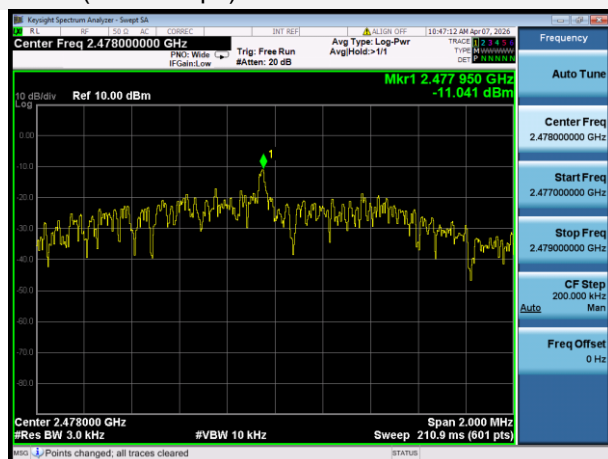
GFSK (BLE 2Mbps) LOW CHANNEL



GFSK (BLE 2Mbps) MIDDLE CHANNEL



GFSK (BLE 2Mbps) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ19C0366-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ19C0366-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ19C0366-AI.PDF”.

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--END OF REPORT--