

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	-48.21	-7.57	-27.57	Pass
High Channel	-48.27	-6.90	-26.90	Pass

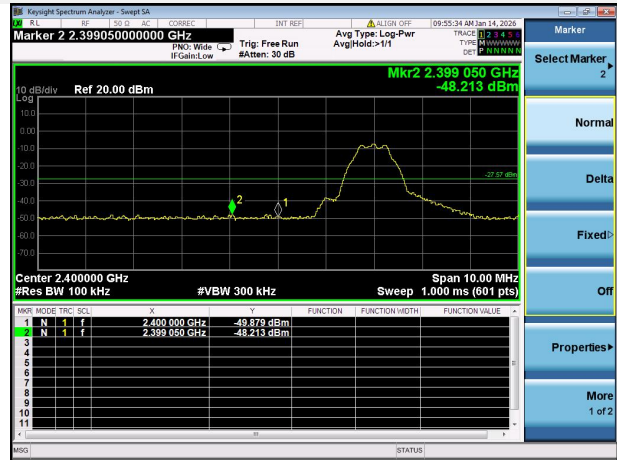
GFSK (BLE 2Mbps)				
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-47.93	-7.49	-27.49	Pass
High Channel	-47.93	-6.94	-26.94	Pass

Test Plots

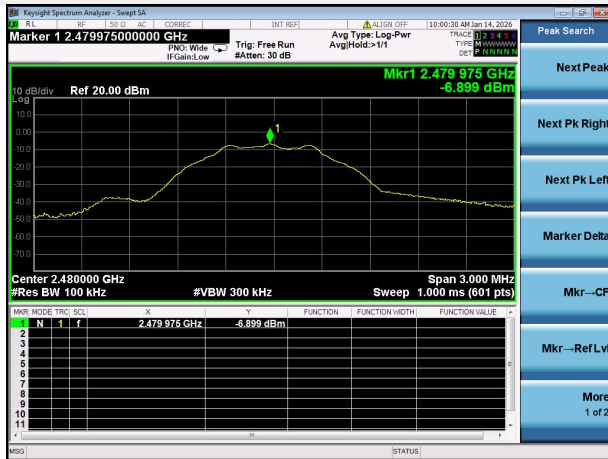
GFSK (BLE 1Mbps) LOW CHANNEL, CARRIER LEVEL



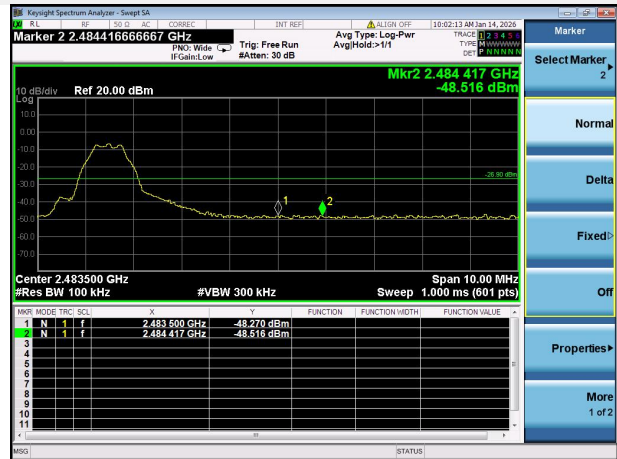
GFSK (BLE 1Mbps) LOW CHANNEL, BAND EDGE



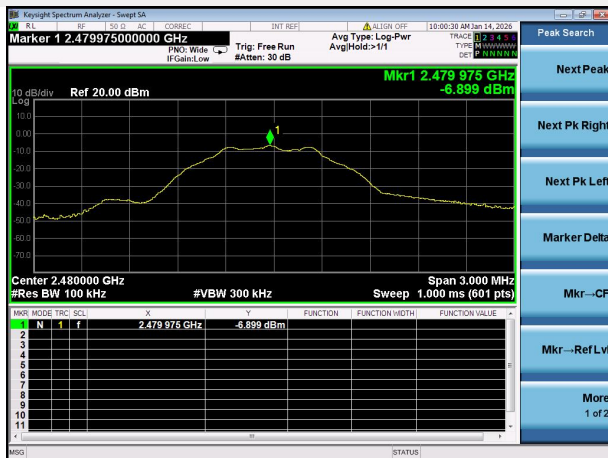
GFSK (BLE 1Mbps) HIGH CHANNEL, CARRIER LEVEL



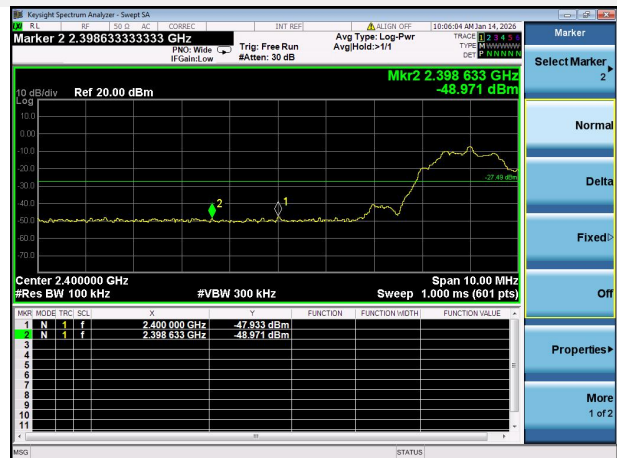
GFSK (BLE 1Mbps) HIGH CHANNEL, BAND EDGE

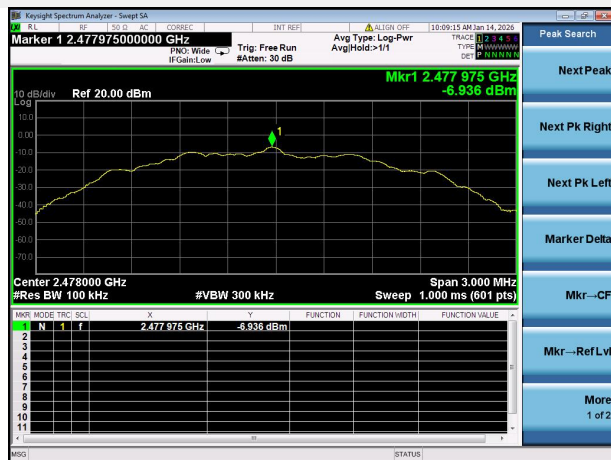
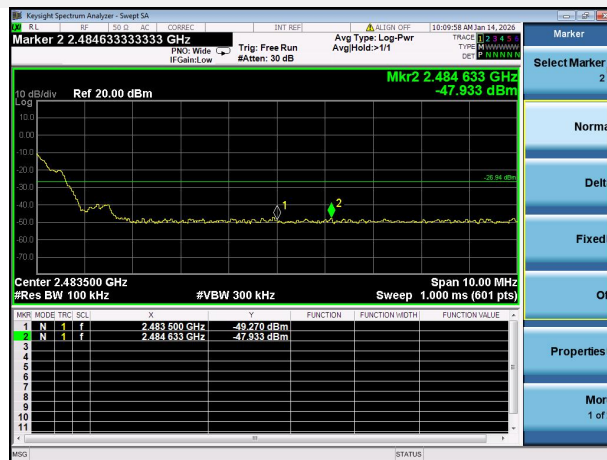


GFSK (BLE 2Mbps) LOW CHANNEL, CARRIER LEVEL



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 ¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

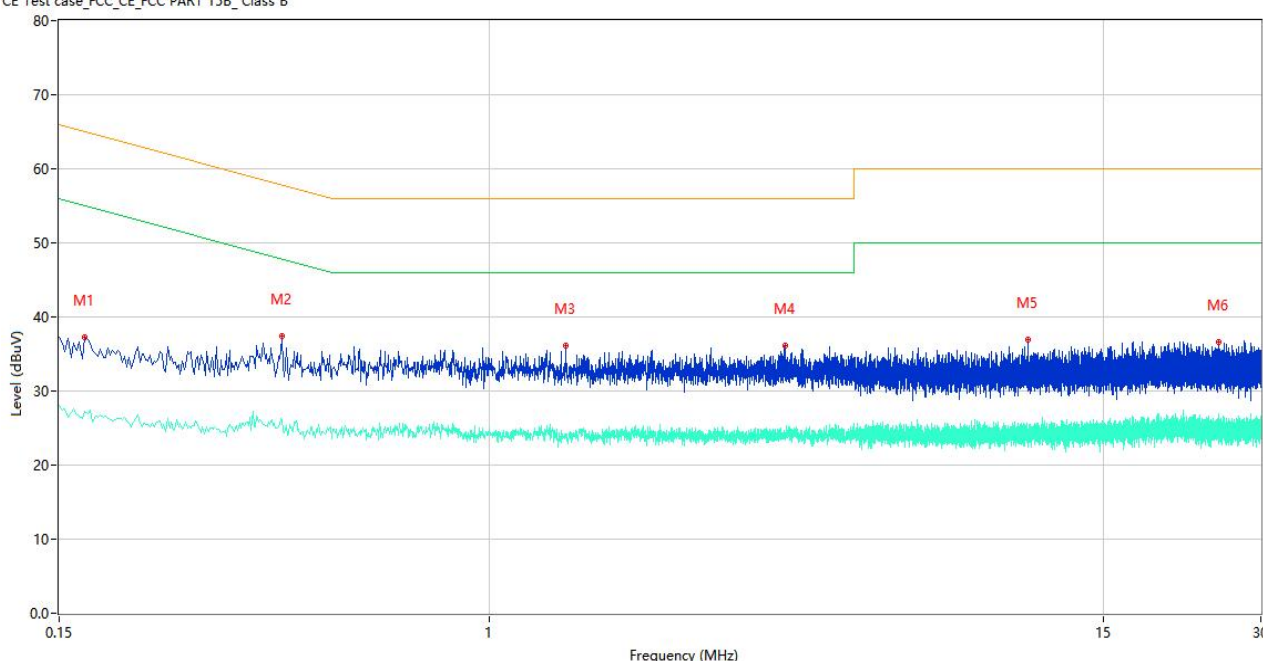
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note ³: 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

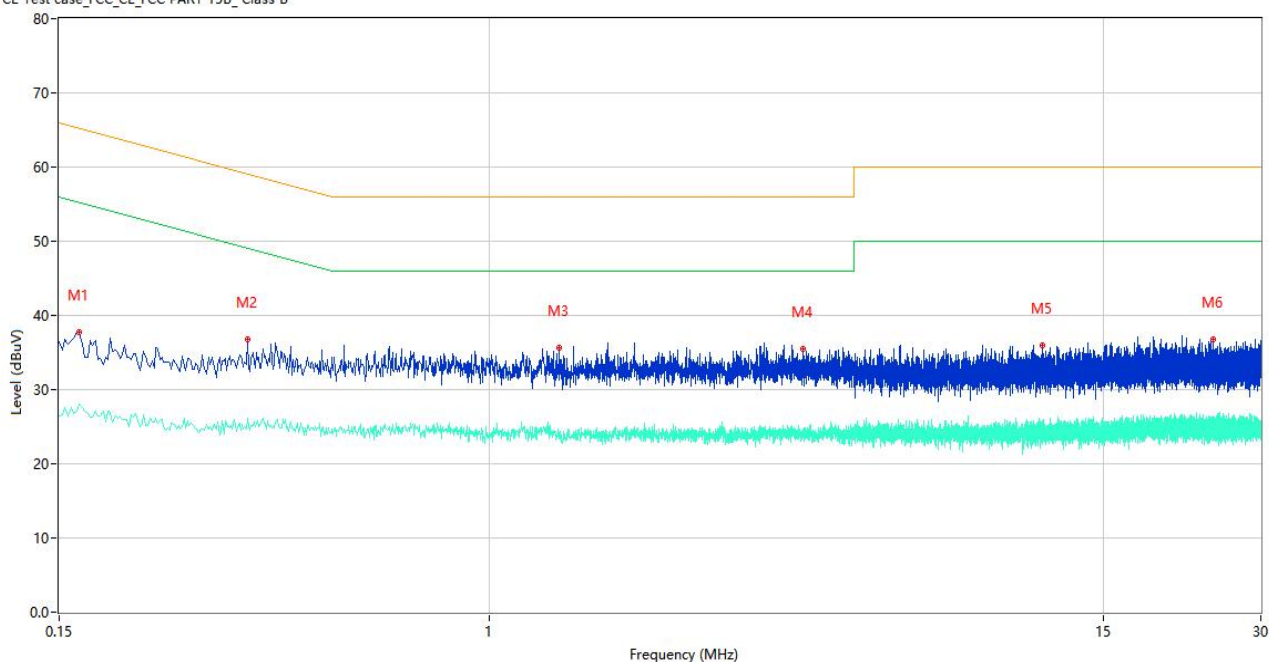


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	37.20	9.85	65.06	27.86	Peak	L	Pass
1**	0.168	27.27	9.85	55.06	27.79	AV	L	Pass
2	0.400	37.36	10.61	57.85	20.49	Peak	L	Pass
2**	0.400	26.09	10.61	47.85	21.76	AV	L	Pass
3	1.400	36.12	9.80	56.00	19.88	Peak	L	Pass
3**	1.400	24.27	9.80	46.00	21.73	AV	L	Pass
4	3.692	36.14	10.31	56.00	19.86	Peak	L	Pass
4**	3.692	24.42	10.31	46.00	21.58	AV	L	Pass
5	10.744	36.96	10.47	60.00	23.04	Peak	L	Pass
5**	10.744	24.16	10.47	50.00	25.84	AV	L	Pass
6	24.886	36.67	11.04	60.00	23.33	Peak	L	Pass

6**	24.886	25.14	11.04	50.00	24.86	AV	L	Pass
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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	37.81	9.85	65.26	27.45	Peak	N	Pass
1**	0.164	27.99	9.85	55.26	27.27	AV	N	Pass
2	0.344	36.84	10.70	59.11	22.27	Peak	N	Pass
2**	0.344	26.06	10.70	49.11	23.05	AV	N	Pass
3	1.360	35.69	10.01	56.00	20.31	Peak	N	Pass
3**	1.360	23.43	10.01	46.00	22.57	AV	N	Pass
4	3.980	35.43	10.03	56.00	20.57	Peak	N	Pass
4**	3.980	24.66	10.03	46.00	21.34	AV	N	Pass
5	11.430	36.04	10.77	60.00	23.96	Peak	N	Pass
5**	11.430	25.15	10.77	50.00	24.85	AV	N	Pass
6	24.344	36.77	10.72	60.00	23.23	Peak	N	Pass
6**	24.344	25.87	10.72	50.00	24.13	AV	N	Pass

A.6 Radiated Spurious Emission

Note¹: The symbol of "--" in the table which means not application.

Note²: 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.

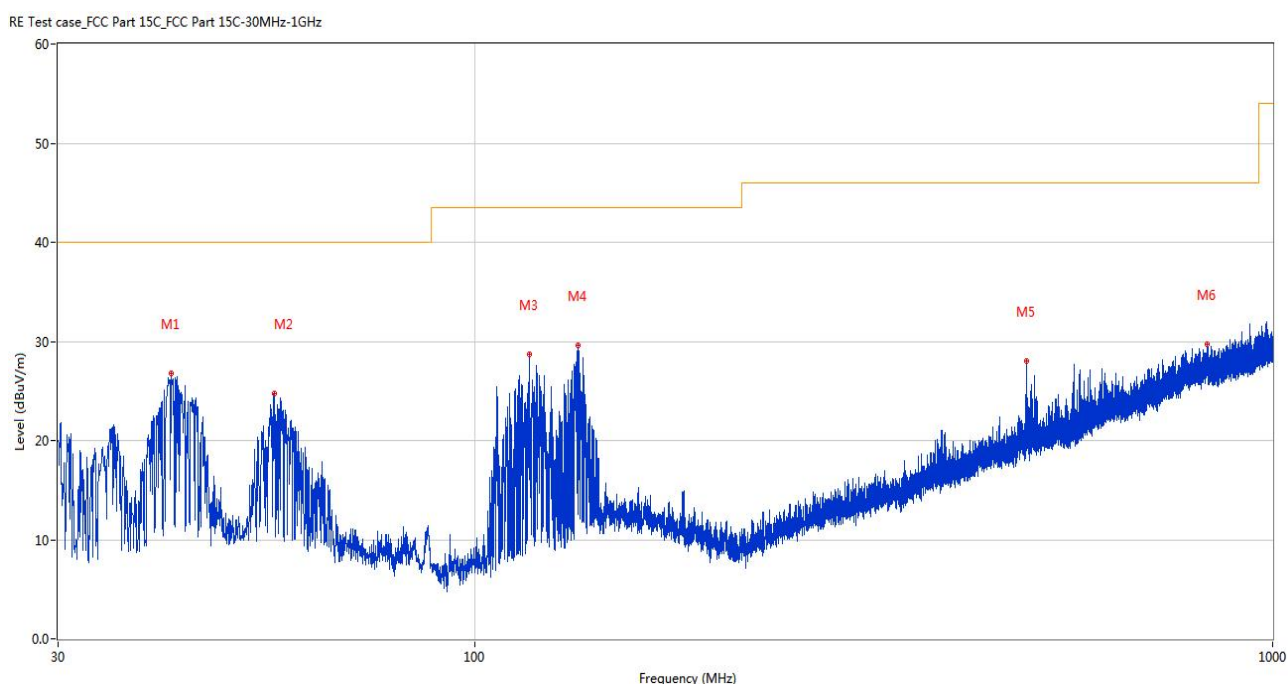
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and BLE 2M-High channel mode is the worst.

Note⁵: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

Test Data and Plots

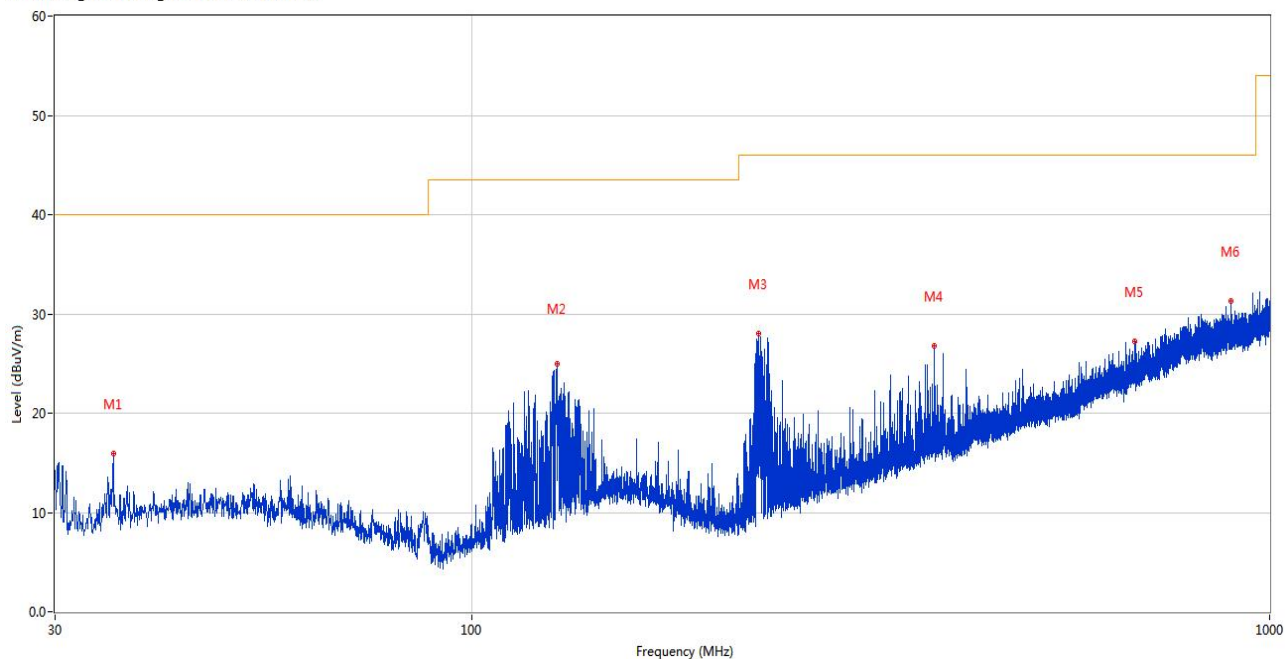
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	41.592	26.80	-25.46	40.0	13.20	Peak	350.00	100	Vertical	Pass
2	55.947	24.74	-25.33	40.0	15.26	Peak	262.00	100	Vertical	Pass
3	117.009	28.69	-27.27	43.5	14.81	Peak	211.00	100	Vertical	Pass
4	134.614	29.60	-25.36	43.5	13.90	Peak	219.00	100	Vertical	Pass
5	490.896	28.07	-16.90	46.0	17.93	Peak	55.00	100	Vertical	Pass
6	828.601	29.68	-9.52	46.0	16.32	Peak	360.00	100	Vertical	Pass

30 MHz to 1 GHz, ANT V

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



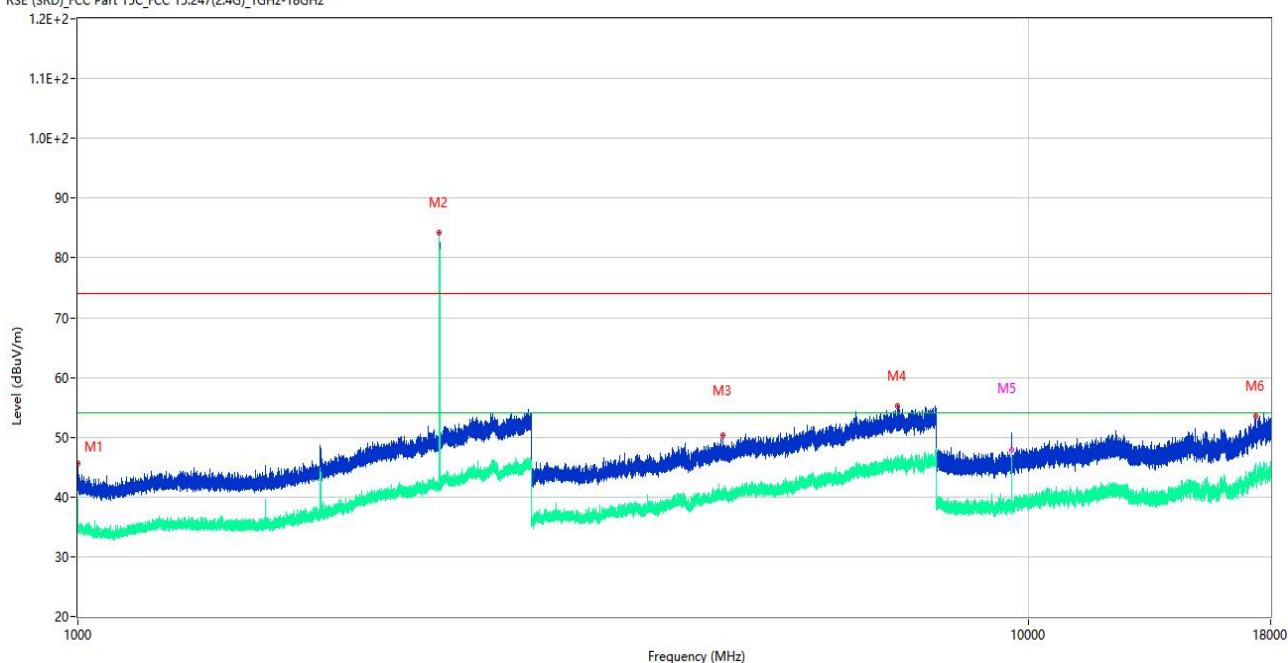
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.480	15.95	-26.48	40.0	24.05	Peak	82.00	100	Horizontal	Pass
2	127.679	25.01	-26.51	43.5	18.49	Peak	99.00	100	Horizontal	Pass
3	228.559	28.03	-26.51	46.0	17.97	Peak	29.00	100	Horizontal	Pass
4	379.976	26.73	-20.31	46.0	19.27	Peak	254.00	100	Horizontal	Pass
5	678.251	27.24	-12.73	46.0	18.76	Peak	246.00	100	Horizontal	Pass
6	894.658	31.27	-9.34	46.0	14.73	Peak	65.00	100	Horizontal	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

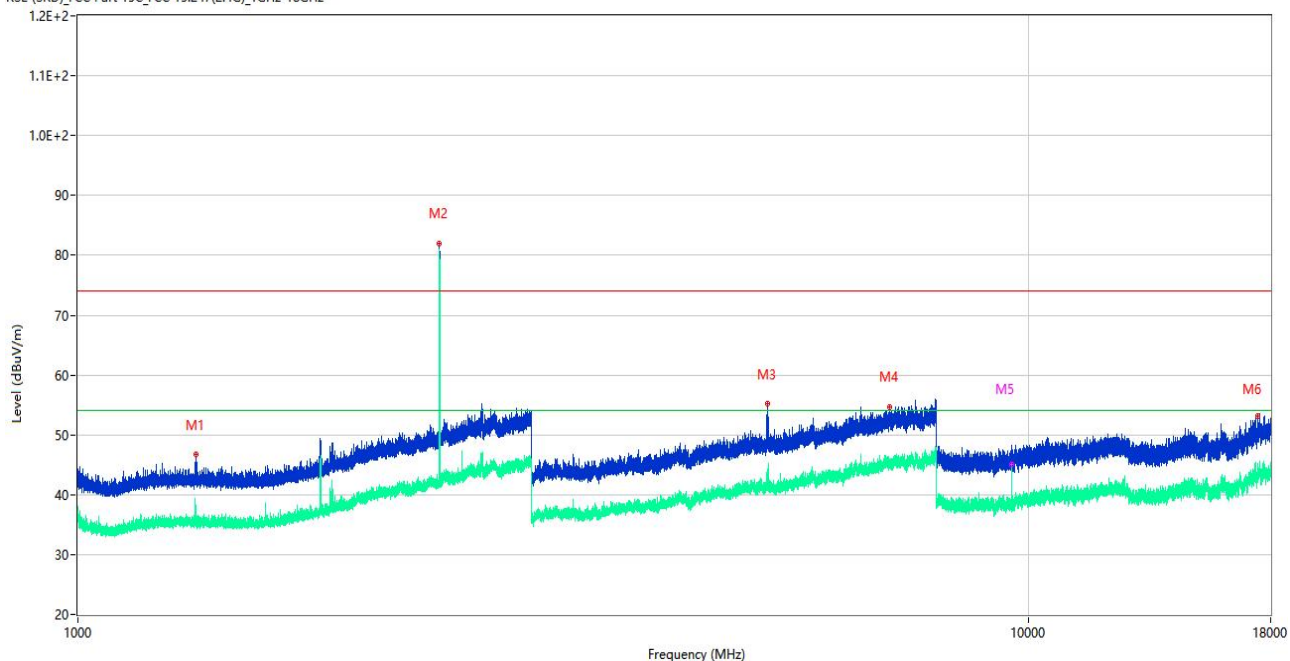
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1000.200	45.65	74.0	28.35	Peak	96.00	400	Horizontal	Pass
1**	1000.200	35.91	54.0	18.09	AV	96.00	400	Horizontal	Pass
2	2401.800	84.25	74.0	-10.25	Peak	16.00	150	Horizontal	N/A
2**	2401.800	83.49	54.0	-29.49	AV	16.00	150	Horizontal	N/A
3	4776.250	50.33	74.0	23.67	Peak	45.00	150	Horizontal	Pass
3**	4776.250	40.02	54.0	13.98	AV	45.00	150	Horizontal	Pass
4	7286.000	55.21	74.0	18.79	Peak	55.00	400	Horizontal	Pass
4**	7286.000	44.99	54.0	9.01	AV	55.00	400	Horizontal	Pass
5	9608.350	49.99	74.0	24.01	Peak	60.00	150	Horizontal	Pass
5**	9608.350	47.85	54.0	6.15	AV	60.00	150	Horizontal	Pass
6	17346.636	53.54	74.0	20.46	Peak	3.00	400	Horizontal	Pass
6**	17346.636	44.76	54.0	9.24	AV	3.00	400	Horizontal	Pass

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

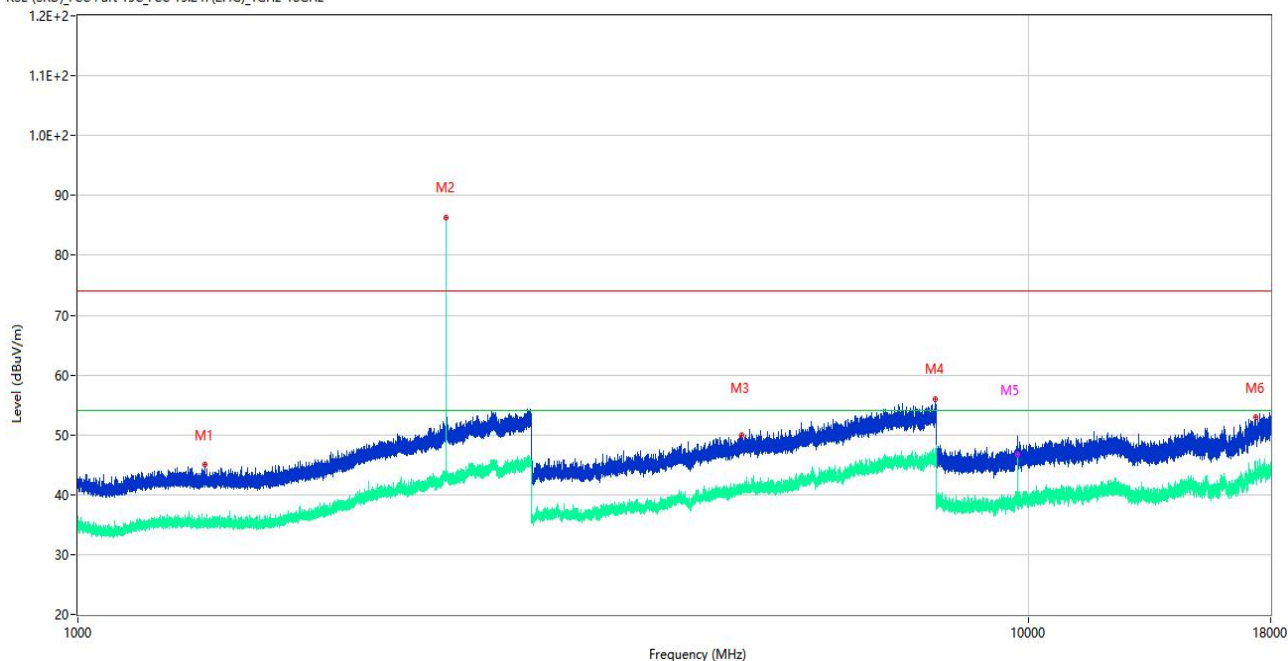
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.500	46.71	74.0	27.29	Peak	140.00	200	Vertical	Pass
1**	1332.500	38.35	54.0	15.65	AV	140.00	200	Vertical	Pass
2	2401.700	82.05	74.0	-8.05	Peak	73.00	200	Vertical	N/A
2**	2401.700	80.03	54.0	-26.03	AV	73.00	200	Vertical	N/A
3	5316.250	55.19	74.0	18.81	Peak	85.00	150	Vertical	Pass
3**	5316.250	43.84	54.0	10.16	AV	85.00	150	Vertical	Pass
4	7151.500	54.70	74.0	19.30	Peak	358.00	150	Vertical	Pass
4**	7151.500	44.79	54.0	9.21	AV	358.00	150	Vertical	Pass
5	9608.112	47.63	74.0	26.37	Peak	210.00	150	Vertical	Pass
5**	9608.112	45.02	54.0	8.98	AV	210.00	150	Vertical	Pass
6	17452.950	53.11	74.0	20.89	Peak	250.00	400	Vertical	Pass
6**	17452.950	43.73	54.0	10.27	AV	250.00	400	Vertical	Pass

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

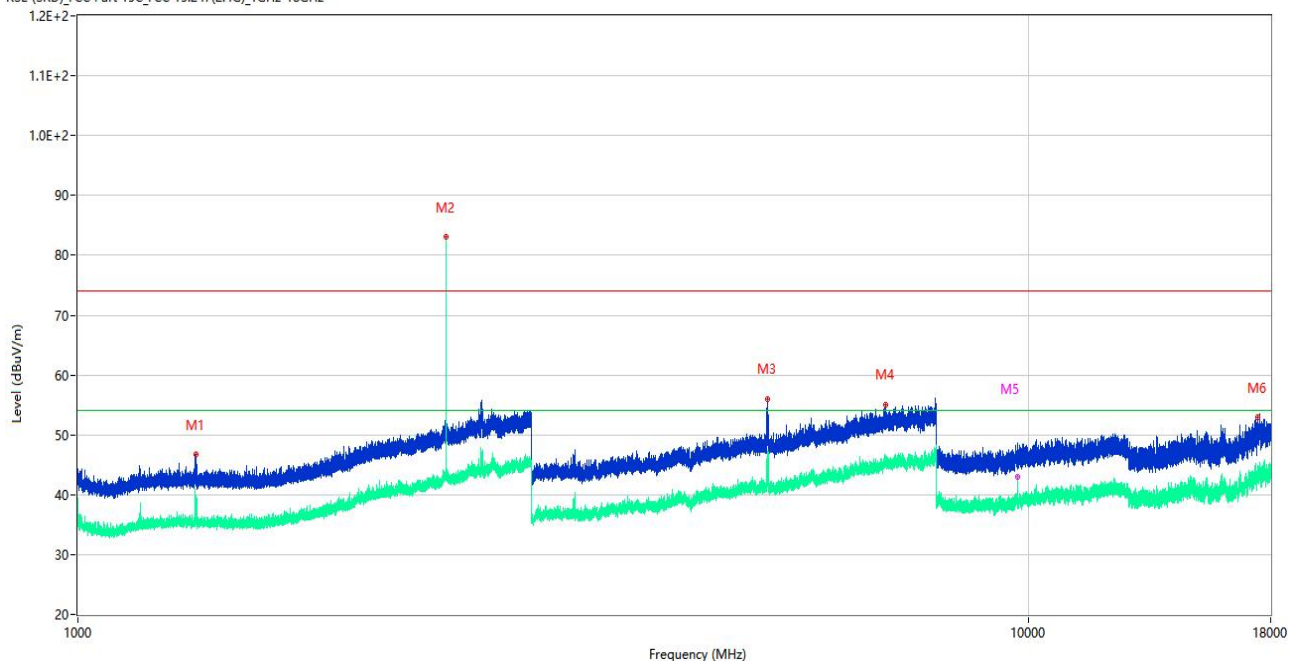
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1360.300	44.98	74.0	29.02	Peak	360.00	400	Horizontal	Pass
1**	1360.300	35.79	54.0	18.21	AV	360.00	400	Horizontal	Pass
2	2439.800	86.33	74.0	-12.33	Peak	21.00	200	Horizontal	N/A
2**	2439.800	86.05	54.0	-32.05	AV	21.00	200	Horizontal	N/A
3	4995.250	49.91	74.0	24.09	Peak	236.00	200	Horizontal	Pass
3**	4995.250	40.90	54.0	13.10	AV	236.00	200	Horizontal	Pass
4	7992.250	56.05	74.0	17.95	Peak	75.00	100	Horizontal	Pass
4**	7992.250	47.04	54.0	6.96	AV	75.00	100	Horizontal	Pass
5	9760.349	48.75	74.0	25.25	Peak	32.00	100	Horizontal	Pass
5**	9760.349	46.70	54.0	7.30	AV	32.00	100	Horizontal	Pass
6	17351.100	52.94	74.0	21.06	Peak	42.00	300	Horizontal	Pass
6**	17351.100	44.54	54.0	9.46	AV	42.00	300	Horizontal	Pass

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

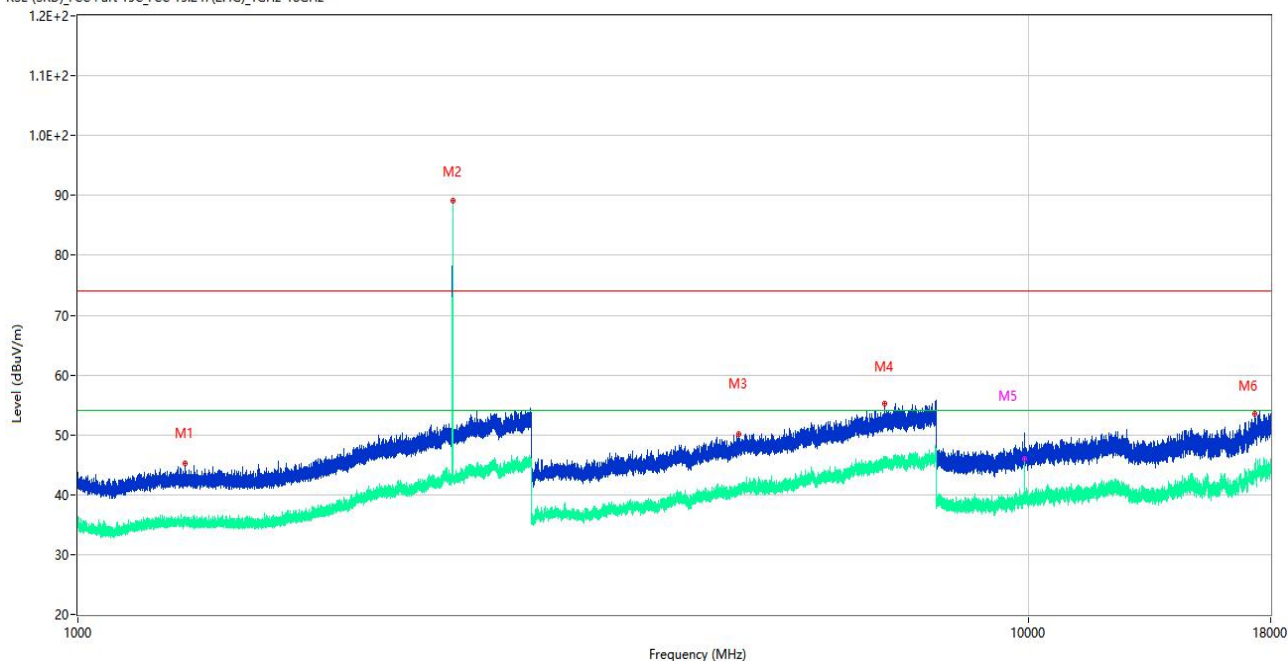
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.400	46.70	74.0	27.30	Peak	152.00	400	Vertical	Pass
1**	1331.400	37.76	54.0	16.24	AV	152.00	400	Vertical	Pass
2	2439.600	83.03	74.0	-9.03	Peak	85.00	100	Vertical	N/A
2**	2439.600	81.60	54.0	-27.60	AV	85.00	100	Vertical	N/A
3	5323.500	55.88	74.0	18.12	Peak	65.00	150	Vertical	Pass
3**	5323.500	43.62	54.0	10.38	AV	65.00	150	Vertical	Pass
4	7081.500	54.94	74.0	19.06	Peak	44.00	150	Vertical	Pass
4**	7081.500	45.43	54.0	8.57	AV	44.00	150	Vertical	Pass
5	9760.349	46.35	74.0	27.65	Peak	333.00	150	Vertical	Pass
5**	9760.349	42.98	54.0	11.02	AV	333.00	150	Vertical	Pass
6	17450.062	52.88	74.0	21.12	Peak	0.00	400	Vertical	Pass
6**	17450.062	43.51	54.0	10.49	AV	0.00	400	Vertical	Pass

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

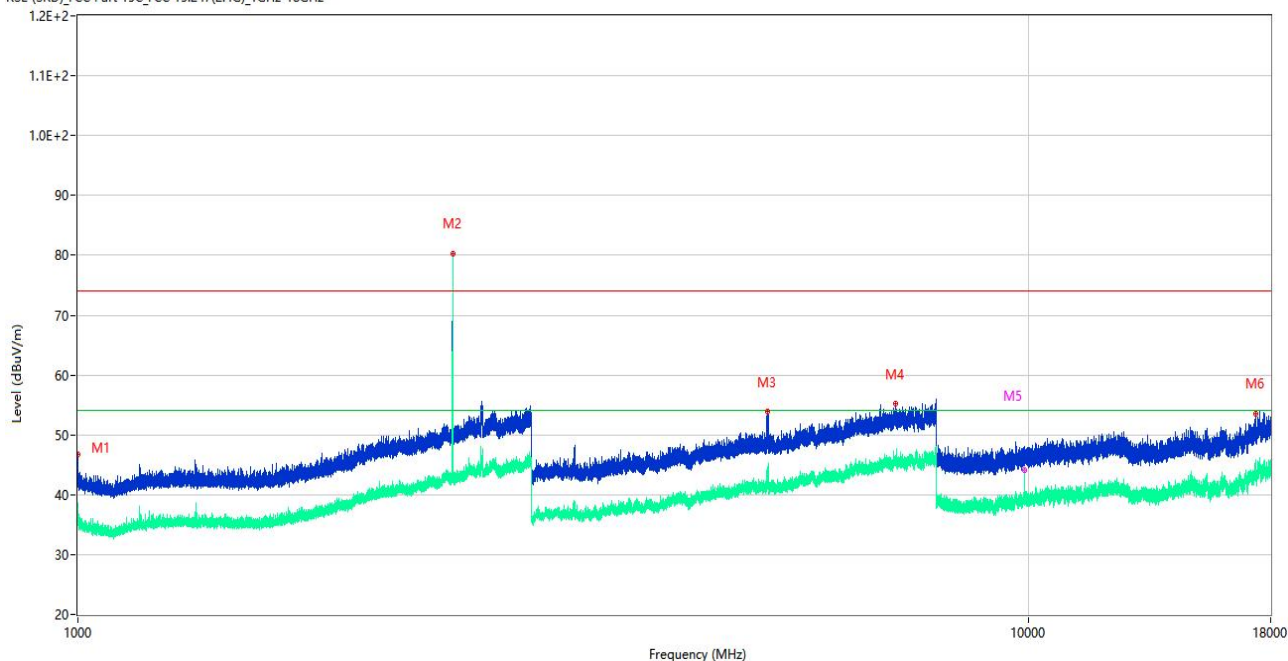
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1295.200	45.26	74.0	28.74	Peak	1.00	300	Horizontal	Pass
1**	1295.200	36.48	54.0	17.52	AV	1.00	300	Horizontal	Pass
2	2479.700	89.10	74.0	-15.10	Peak	16.00	200	Horizontal	N/A
2**	2479.700	87.81	54.0	-33.81	AV	16.00	200	Horizontal	N/A
3	4959.250	50.09	74.0	23.91	Peak	345.00	100	Horizontal	Pass
3**	4959.250	40.73	54.0	13.27	AV	345.00	100	Horizontal	Pass
4	7056.250	55.19	74.0	18.81	Peak	145.00	100	Horizontal	Pass
4**	7056.250	45.09	54.0	8.91	AV	145.00	100	Horizontal	Pass
5	9920.187	49.01	74.0	24.99	Peak	359.00	100	Horizontal	Pass
5**	9920.187	45.93	54.0	8.07	AV	359.00	100	Horizontal	Pass
6	17330.625	53.53	74.0	20.47	Peak	236.00	200	Horizontal	Pass
6**	17330.625	43.93	54.0	10.07	AV	236.00	200	Horizontal	Pass

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

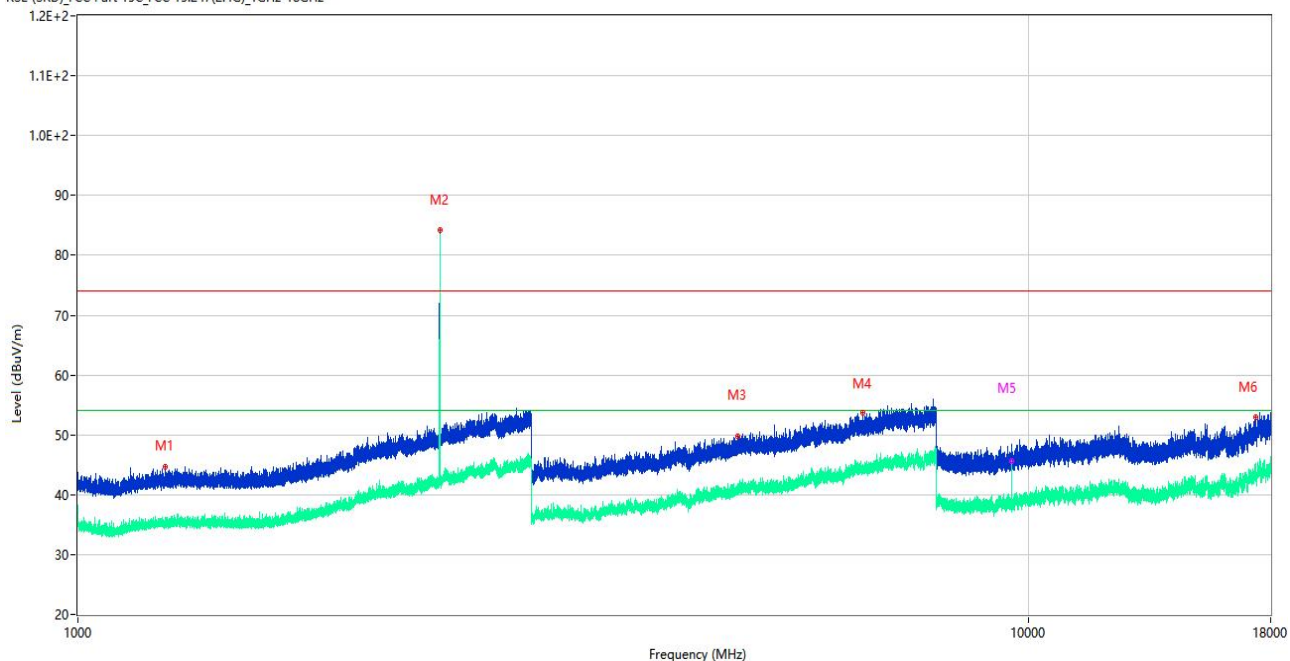
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1000.100	46.74	74.0	27.26	Peak	73.00	200	Vertical	Pass
1**	1000.100	36.00	54.0	18.00	AV	73.00	200	Vertical	Pass
2	2479.800	80.30	74.0	-6.30	Peak	88.00	100	Vertical	N/A
2**	2479.800	79.41	54.0	-25.41	AV	88.00	100	Vertical	N/A
3	5313.000	53.95	74.0	20.05	Peak	186.00	100	Vertical	Pass
3**	5313.000	44.75	54.0	9.25	AV	186.00	100	Vertical	Pass
4	7256.500	55.18	74.0	18.82	Peak	114.00	100	Vertical	Pass
4**	7256.500	45.79	54.0	8.21	AV	114.00	100	Vertical	Pass
5	9920.187	46.73	74.0	27.27	Peak	259.00	100	Vertical	Pass
5**	9920.187	44.07	54.0	9.93	AV	259.00	100	Vertical	Pass
6	17342.700	53.56	74.0	20.44	Peak	202.00	100	Vertical	Pass
6**	17342.700	44.44	54.0	9.56	AV	202.00	100	Vertical	Pass

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

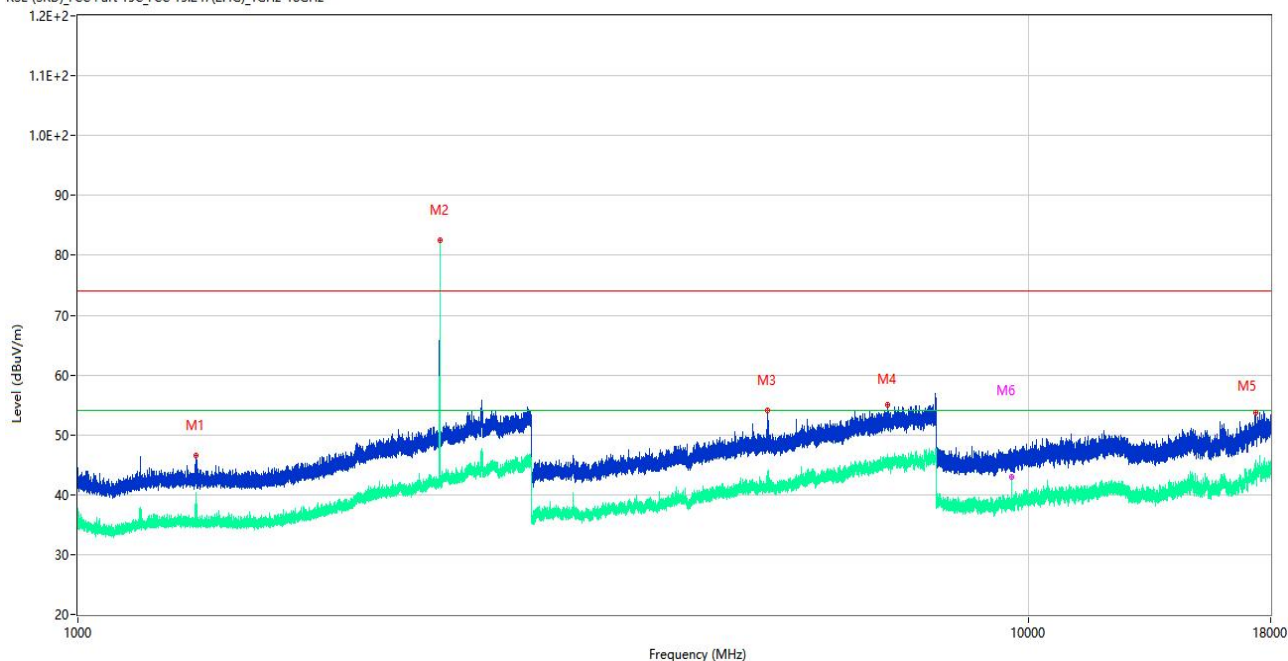
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1236.100	44.68	74.0	29.32	Peak	251.00	300	Horizontal	Pass
1**	1236.100	35.42	54.0	18.58	AV	251.00	300	Horizontal	Pass
2	2404.100	84.22	74.0	-10.22	Peak	12.00	200	Horizontal	N/A
2**	2404.100	83.43	54.0	-29.43	AV	12.00	200	Horizontal	N/A
3	4942.750	49.71	74.0	24.29	Peak	359.00	150	Horizontal	Pass
3**	4942.750	40.15	54.0	13.85	AV	359.00	150	Horizontal	Pass
4	6707.500	53.70	74.0	20.30	Peak	359.00	150	Horizontal	Pass
4**	6707.500	44.36	54.0	9.64	AV	359.00	150	Horizontal	Pass
5	9616.425	47.76	74.0	26.24	Peak	235.00	150	Horizontal	Pass
5**	9616.425	45.69	54.0	8.31	AV	235.00	150	Horizontal	Pass
6	17343.224	53.04	74.0	20.96	Peak	303.00	100	Horizontal	Pass
6**	17343.224	44.53	54.0	9.47	AV	303.00	100	Horizontal	Pass

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

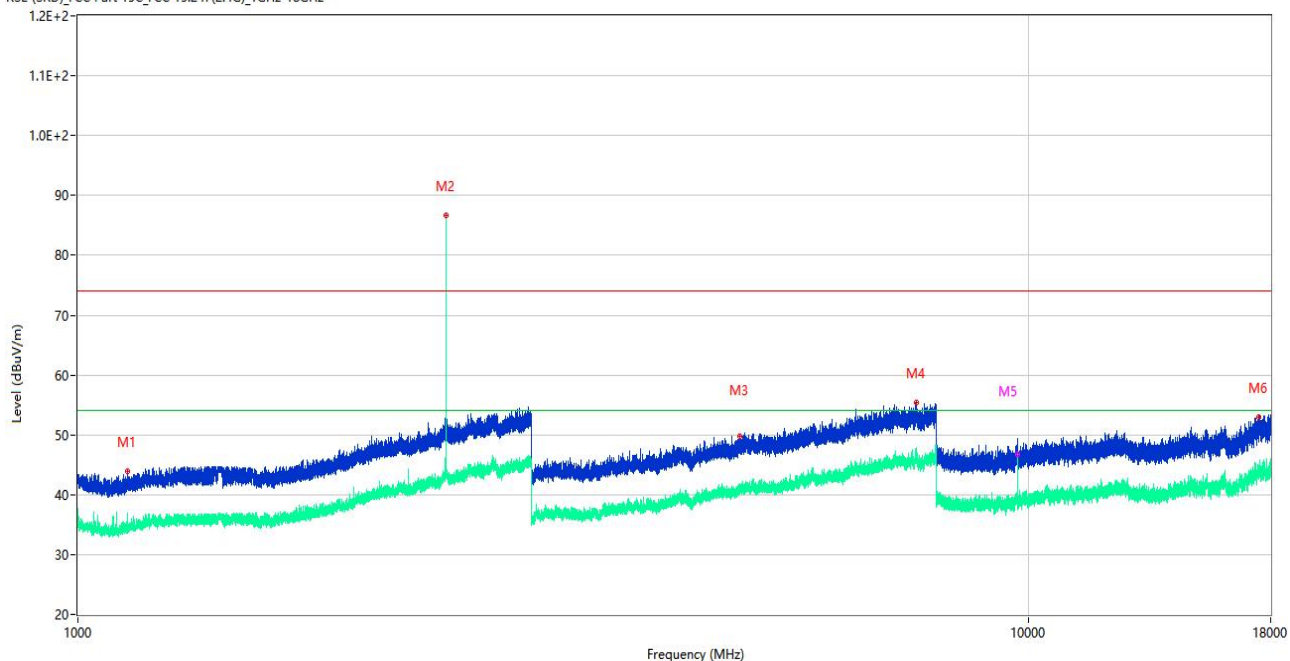
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.200	46.61	74.0	27.39	Peak	147.00	300	Vertical	Pass
1**	1332.200	35.24	54.0	18.76	AV	147.00	300	Vertical	Pass
2	2403.500	82.54	74.0	-8.54	Peak	73.00	200	Vertical	N/A
2**	2403.500	79.55	54.0	-25.55	AV	73.00	200	Vertical	N/A
3	5324.000	54.15	74.0	19.85	Peak	75.00	150	Vertical	Pass
3**	5324.000	41.05	54.0	12.95	AV	75.00	150	Vertical	Pass
4	7120.500	54.94	74.0	19.06	Peak	34.00	150	Vertical	Pass
4**	7120.500	45.51	54.0	8.49	AV	34.00	150	Vertical	Pass
5	17346.376	53.75	74.0	20.25	Peak	196.00	300	Vertical	Pass
5**	17346.376	44.74	54.0	9.26	AV	196.00	300	Vertical	Pass
6	9616.187	46.72	74.0	27.28	Peak	272.00	150	Vertical	Pass
6**	9616.187	43.01	54.0	10.99	AV	272.00	150	Vertical	Pass

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

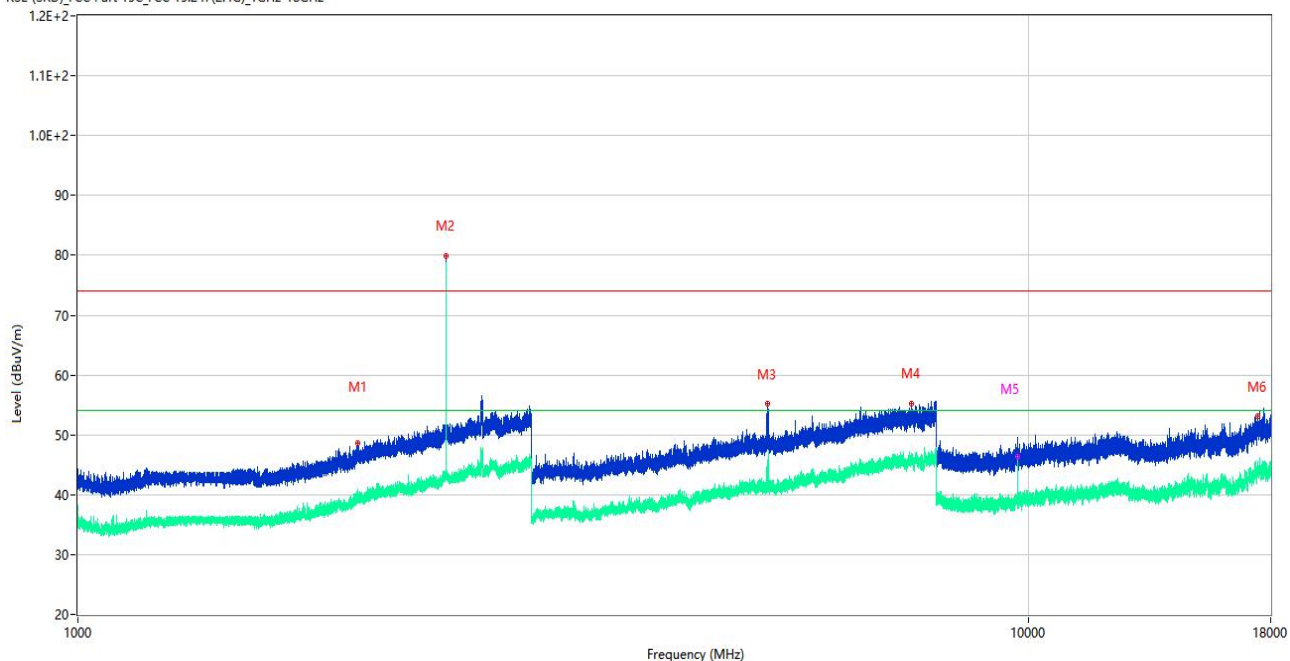
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1128.600	43.89	74.0	30.11	Peak	338.00	150	Horizontal	Pass
1**	1128.600	35.07	54.0	18.93	AV	338.00	150	Horizontal	Pass
2	2439.800	86.63	74.0	-12.63	Peak	3.00	150	Horizontal	N/A
2**	2439.800	85.62	54.0	-31.62	AV	3.00	150	Horizontal	N/A
3	4971.750	49.84	74.0	24.16	Peak	24.00	100	Horizontal	Pass
3**	4971.750	40.88	54.0	13.12	AV	24.00	100	Horizontal	Pass
4	7631.750	55.35	74.0	18.65	Peak	279.00	200	Horizontal	Pass
4**	7631.750	45.79	54.0	8.21	AV	279.00	200	Horizontal	Pass
5	9760.113	49.44	74.0	24.56	Peak	297.00	150	Horizontal	Pass
5**	9760.113	46.74	54.0	7.26	AV	297.00	150	Horizontal	Pass
6	17470.276	52.89	74.0	21.11	Peak	150.00	100	Horizontal	Pass
6**	17470.276	43.59	54.0	10.41	AV	150.00	100	Horizontal	Pass

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

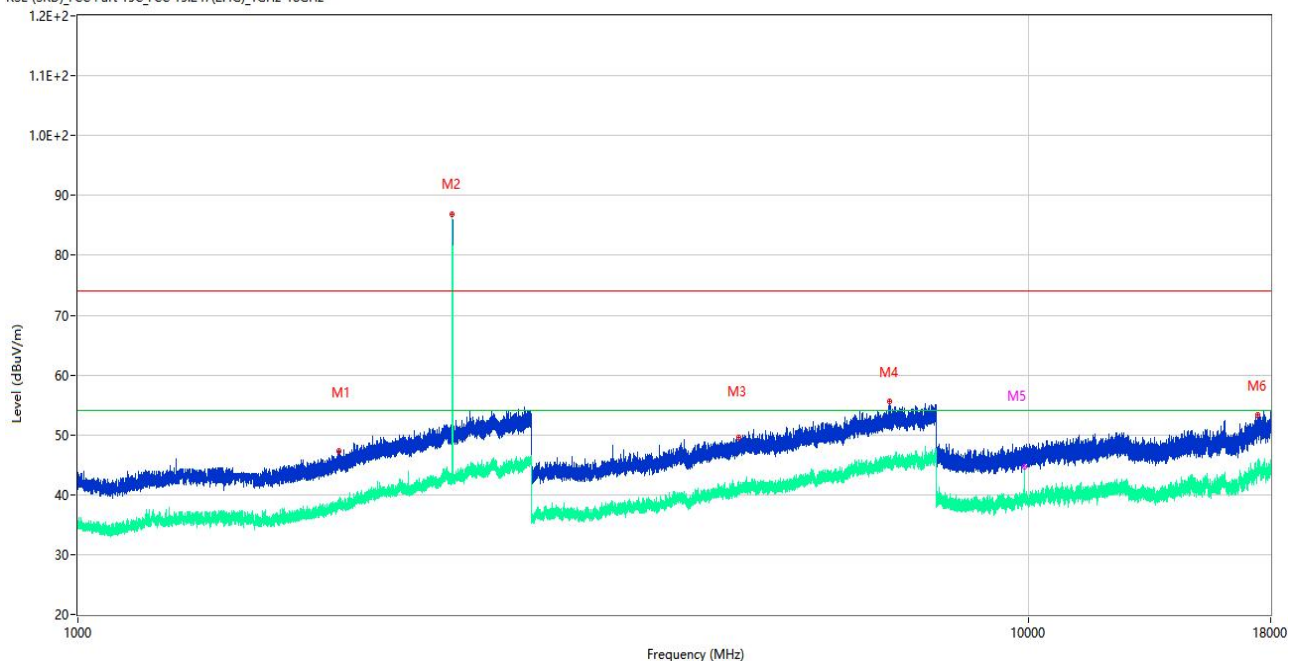
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1972.400	48.57	74.0	25.43	Peak	94.00	150	Vertical	Pass
1**	1972.400	39.99	54.0	14.01	AV	94.00	150	Vertical	Pass
2	2439.500	79.95	74.0	-5.95	Peak	229.00	100	Vertical	N/A
2**	2439.500	76.68	54.0	-22.68	AV	229.00	100	Vertical	N/A
3	5325.000	55.30	74.0	18.70	Peak	96.00	150	Vertical	Pass
3**	5325.000	44.27	54.0	9.73	AV	96.00	150	Vertical	Pass
4	7537.750	55.24	74.0	18.76	Peak	346.00	150	Vertical	Pass
4**	7537.750	45.36	54.0	8.64	AV	346.00	150	Vertical	Pass
5	9760.113	49.54	74.0	24.46	Peak	147.00	150	Vertical	Pass
5**	9760.113	46.39	54.0	7.61	AV	147.00	150	Vertical	Pass
6	17452.425	53.11	74.0	20.89	Peak	77.00	100	Vertical	Pass
6**	17452.425	44.15	54.0	9.85	AV	77.00	100	Vertical	Pass

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

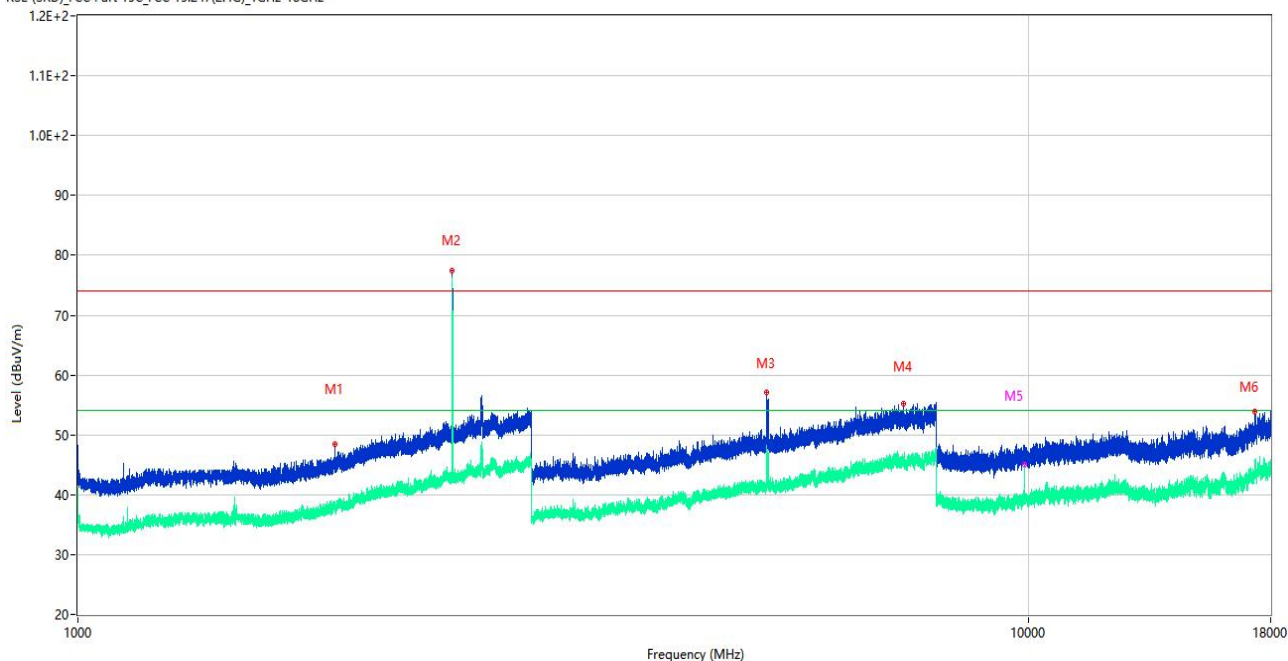
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1882.300	47.32	74.0	26.68	Peak	359.00	150	Horizontal	Pass
1**	1882.300	39.26	54.0	14.74	AV	359.00	150	Horizontal	Pass
2	2477.500	86.92	74.0	-12.92	Peak	359.00	150	Horizontal	N/A
2**	2477.500	84.85	54.0	-30.85	AV	359.00	150	Horizontal	N/A
3	4961.500	49.51	74.0	24.49	Peak	125.00	100	Horizontal	Pass
3**	4961.500	40.64	54.0	13.36	AV	125.00	100	Horizontal	Pass
4	7150.250	55.56	74.0	18.44	Peak	197.00	100	Horizontal	Pass
4**	7150.250	44.94	54.0	9.06	AV	197.00	100	Horizontal	Pass
5	9912.112	48.22	74.0	25.78	Peak	5.00	150	Horizontal	Pass
5**	9912.112	44.69	54.0	9.31	AV	5.00	150	Horizontal	Pass
6	17445.075	53.30	74.0	20.70	Peak	111.00	400	Horizontal	Pass
6**	17445.075	44.49	54.0	9.51	AV	111.00	400	Horizontal	Pass

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

RSE (SRD)_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	1863.500	48.47	74.0	25.53	Peak	228.00	150	Vertical	Pass
1**	1863.500	37.55	54.0	16.45	AV	228.00	150	Vertical	Pass
2	2477.600	77.46	74.0	-3.46	Peak	228.00	200	Vertical	N/A
2**	2477.600	74.80	54.0	-20.80	AV	228.00	200	Vertical	N/A
3	5308.500	57.05	74.0	16.95	Peak	96.00	100	Vertical	Pass
3**	5308.500	41.07	54.0	12.93	AV	96.00	100	Vertical	Pass
4	7393.500	55.17	74.0	18.83	Peak	0.00	150	Vertical	Pass
4**	7393.500	45.49	54.0	8.51	AV	0.00	150	Vertical	Pass
5	9912.112	48.29	74.0	25.71	Peak	278.00	150	Vertical	Pass
5**	9912.112	45.10	54.0	8.90	AV	278.00	150	Vertical	Pass
6	17339.812	53.96	74.0	20.04	Peak	340.00	400	Vertical	Pass
6**	17339.812	44.35	54.0	9.65	AV	340.00	400	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.

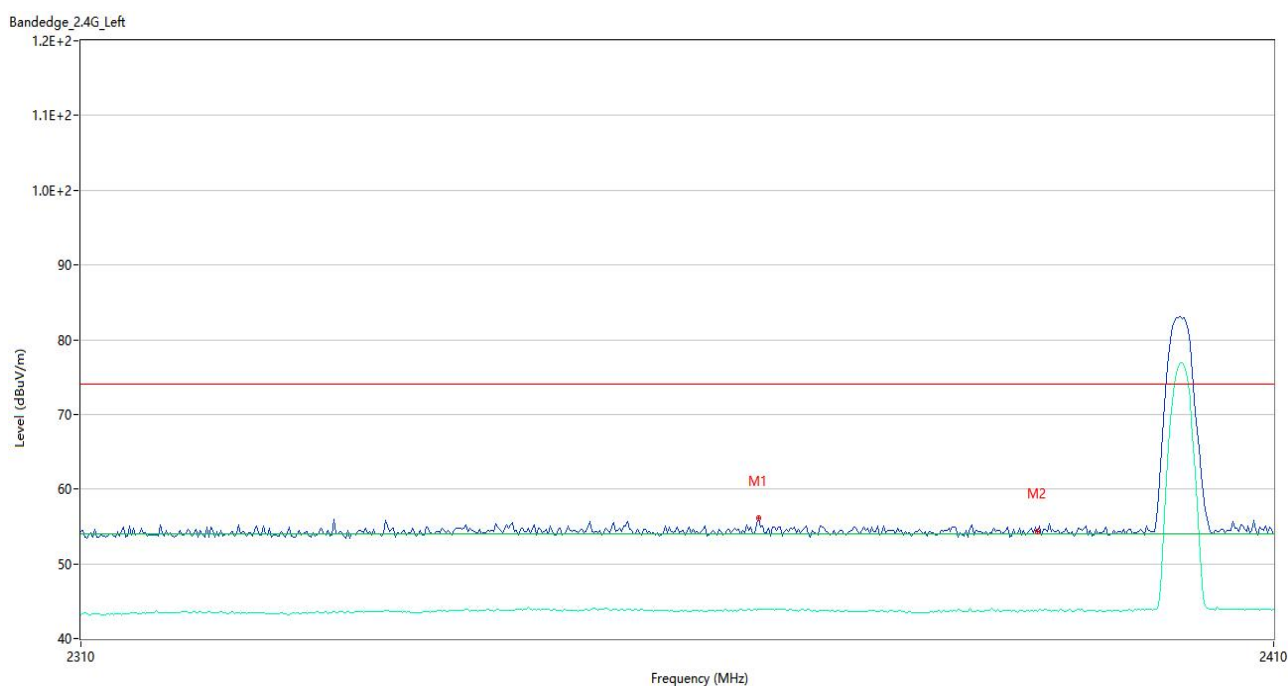
Note³: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.

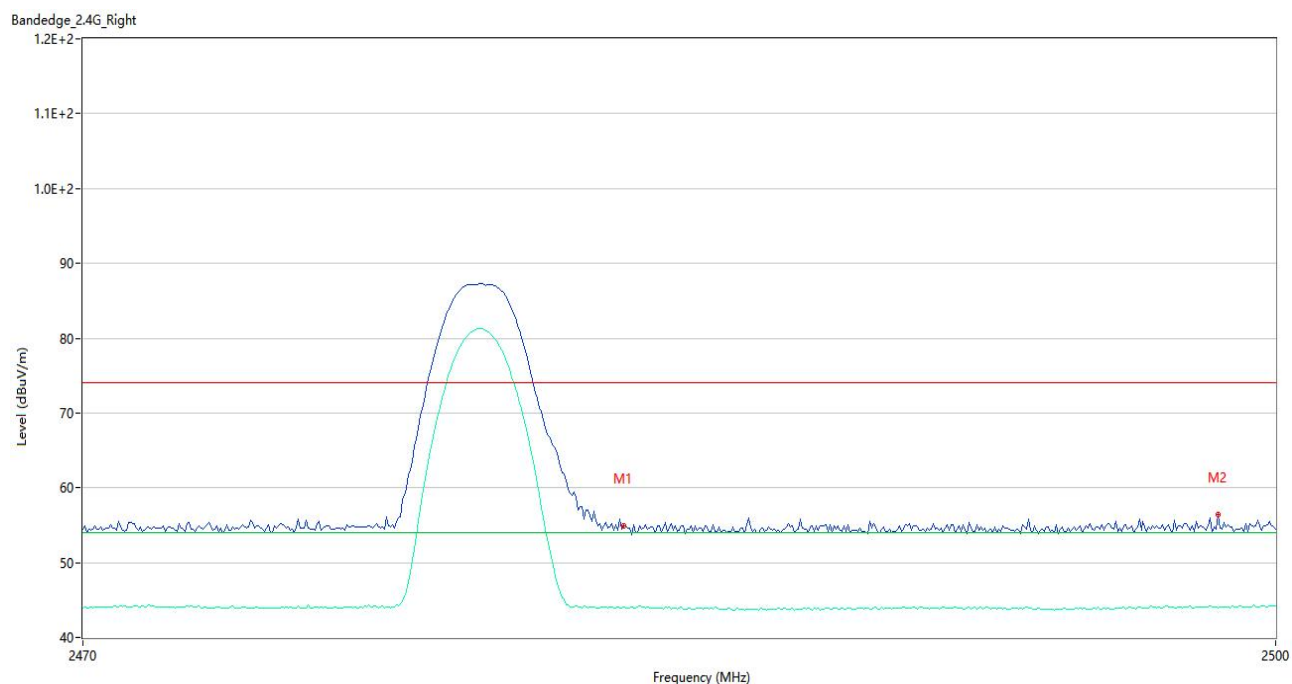
Test Data and Plots

GFSK (BLE 1Mbps) LOW CHANNEL



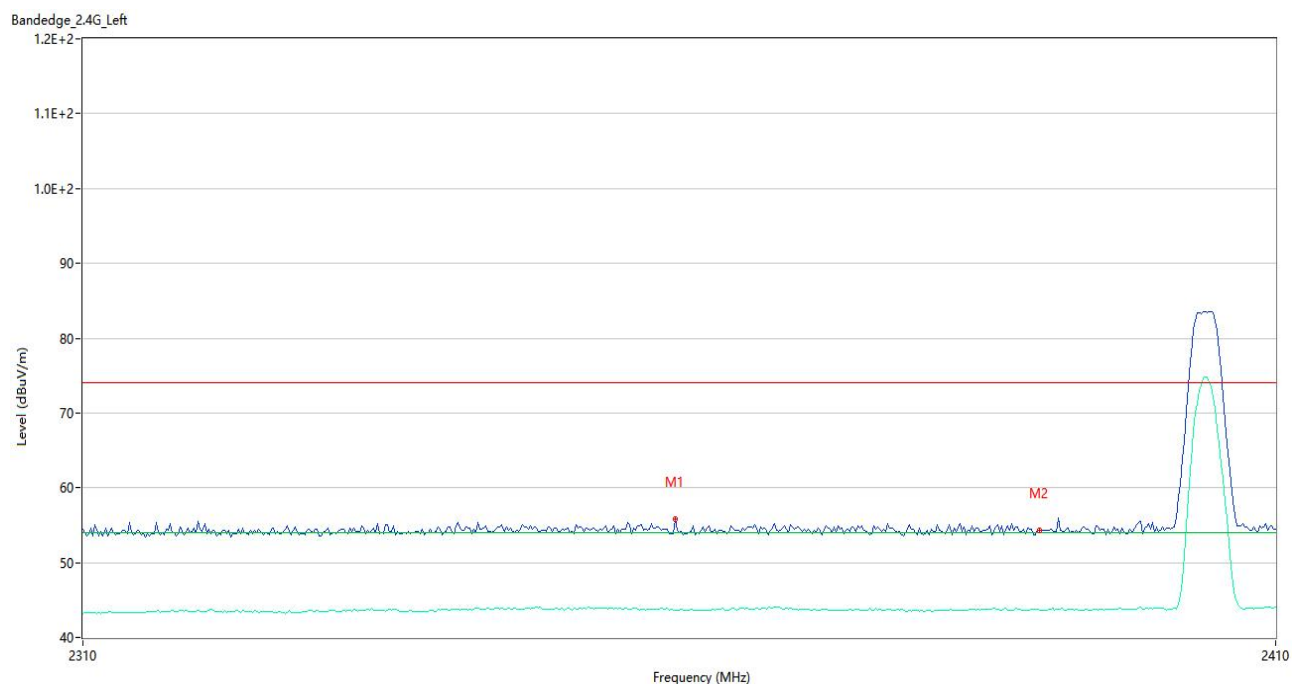
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2366.333	56.13	74.0	17.87	Peak	348.00	100	Horizontal	Pass
1**	2366.333	43.86	54.0	10.14	AV	348.00	100	Horizontal	Pass
2	2389.833	54.37	74.0	19.63	Peak	160.00	100	Horizontal	Pass
2**	2389.833	43.59	54.0	10.41	AV	160.00	100	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL



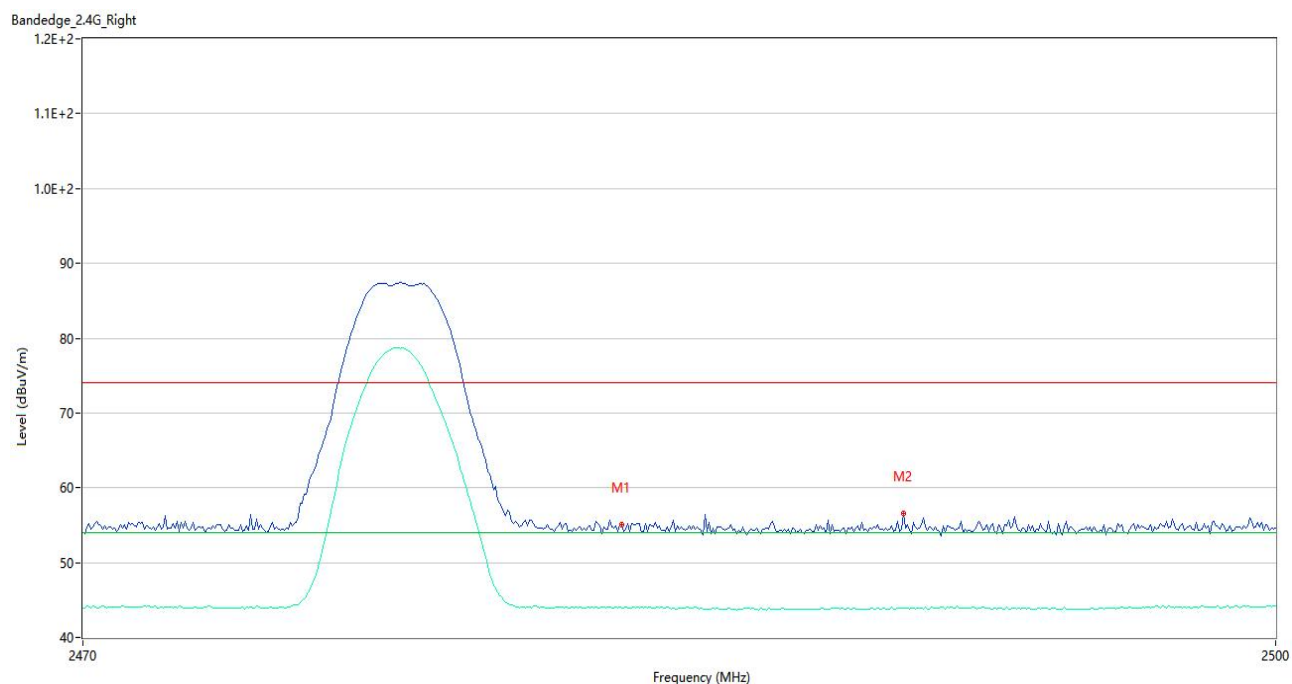
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	54.95	74.0	19.05	Peak	242.00	150	Horizontal	Pass
1**	2483.550	44.04	54.0	9.96	AV	242.00	150	Horizontal	Pass
2	2498.550	56.38	74.0	17.62	Peak	254.00	200	Horizontal	Pass
2**	2498.550	43.90	54.0	10.10	AV	254.00	200	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	2359.167	55.82	74.0	18.18	Peak	88.00	150	Horizontal	Pass
1**	2359.167	43.61	54.0	10.39	AV	88.00	150	Horizontal	Pass
2	2389.833	54.30	74.0	19.70	Peak	240.00	200	Horizontal	Pass
2**	2389.833	43.66	54.0	10.34	AV	240.00	200	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	55.01	74.0	18.99	Peak	248.00	150	Horizontal	Pass
1**	2483.500	43.89	54.0	10.11	AV	248.00	150	Horizontal	Pass
2	2490.600	56.56	74.0	17.44	Peak	187.00	100	Horizontal	Pass
2**	2490.600	43.95	54.0	10.05	AV	187.00	100	Horizontal	Pass

A.8 Power Spectral Density (PSD)

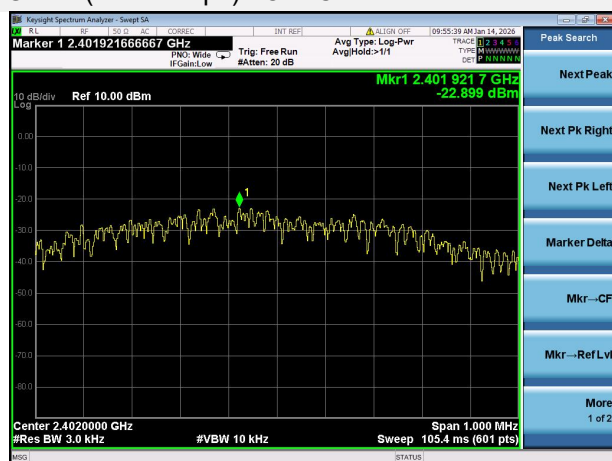
Test Data

GFSK (BLE 1Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-22.90	8	Pass
Middle Channel	-22.67	8	Pass
High Channel	-22.24	8	Pass

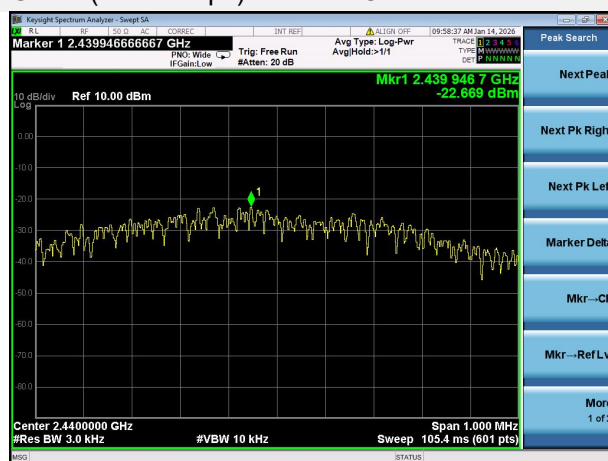
GFSK (BLE 2Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-25.54	8	Pass
Middle Channel	-25.50	8	Pass
High Channel	-25.03	8	Pass

Test Plots

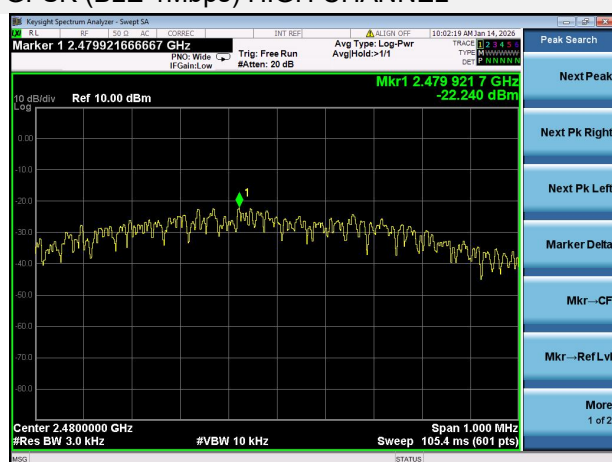
GFSK (BLE 1Mbps) LOW CHANNEL



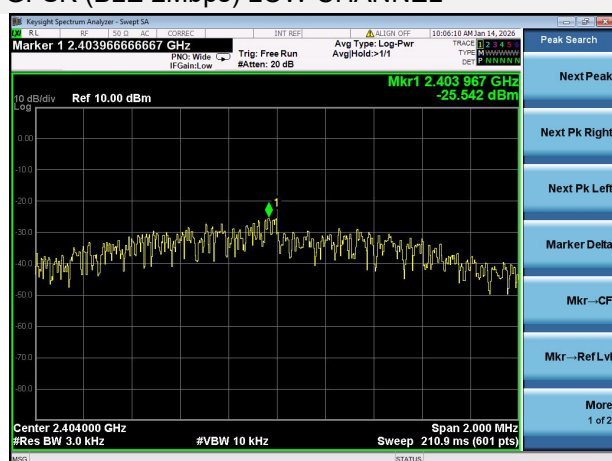
GFSK (BLE 1Mbps) MIDDLE CHANNEL



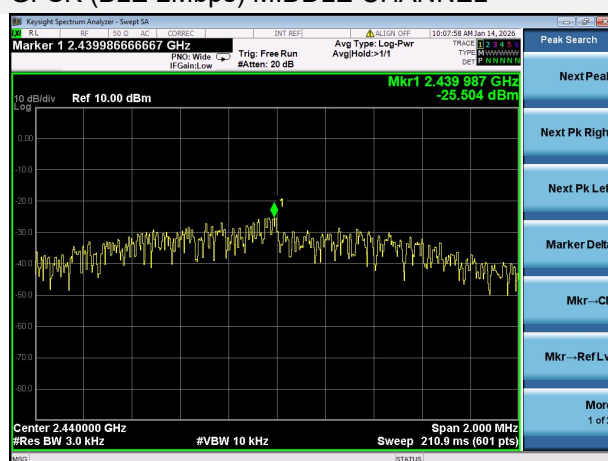
GFSK (BLE 1Mbps) HIGH CHANNEL



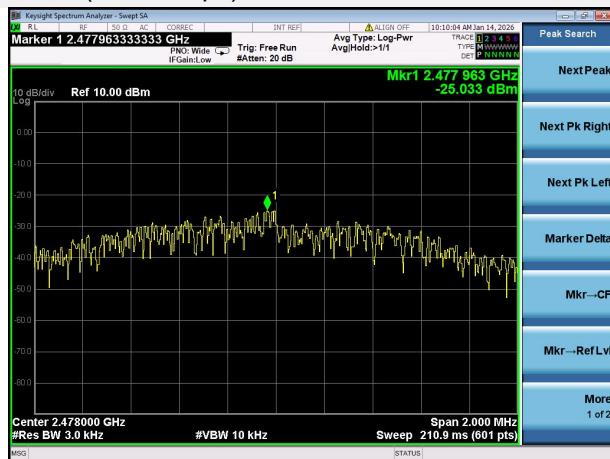
GFSK (BLE 2Mbps) LOW CHANNEL



GFSK (BLE 2Mbps) MIDDLE CHANNEL



GFSK (BLE 2Mbps) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ25C1624-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ25C1624-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ25C1624-AI.PDF”.

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--END OF REPORT--