

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	720.200	1044.700	≥500
Middle Channel	720.200	1033.400	≥500
High Channel	712.600	1037.500	≥500

Test Mode	GFSK (BLE 2Mbps)		
Channel	6 dB Bandwidth (kHz)	99% Bandwidth (kHz)	6 dB Bandwidth Limits (kHz)
Low Channel	1215.000	2084.800	≥500
Middle Channel	1230.000	2066.000	≥500
High Channel	1215.000	2084.600	≥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	-31.59	4.80	-15.20	Pass
Middle Channel	-32.96	4.60	-15.40	Pass
High Channel	-31.46	4.87	-15.14	Pass

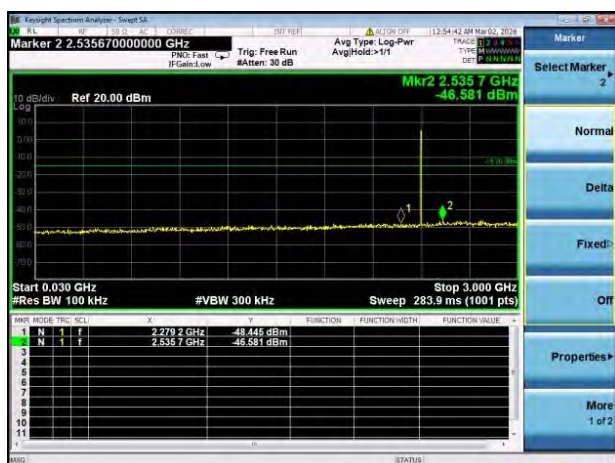
GFSK (BLE 2Mbps)				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-31.77	4.70	-15.30	Pass
Middle Channel	-31.87	4.42	-15.59	Pass
High Channel	-31.55	4.91	-15.09	Pass

Test Plots

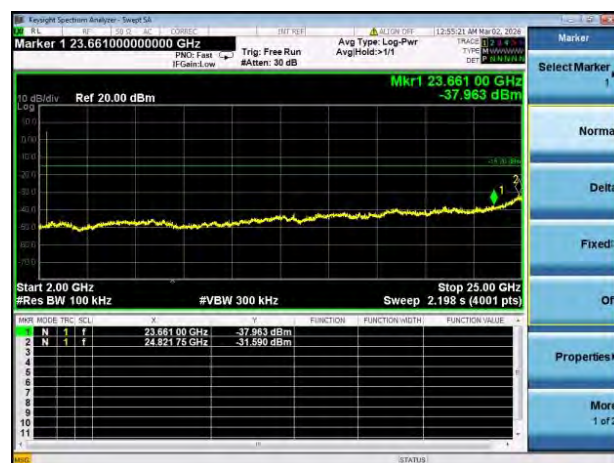
GFSK (BLE 1Mbps) LOW CHANNEL, CARRIER LEVEL



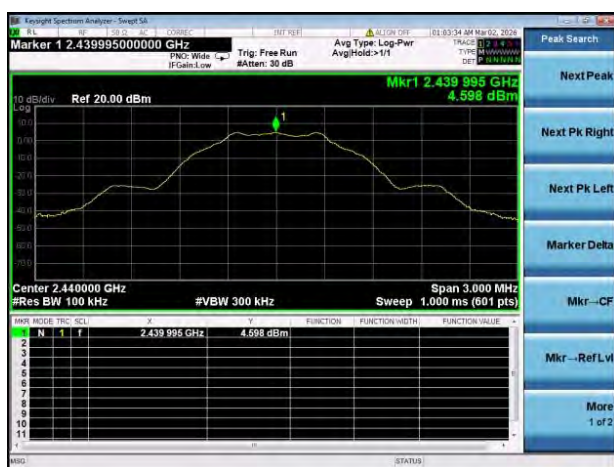
GFSK (BLE 1Mbps) LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



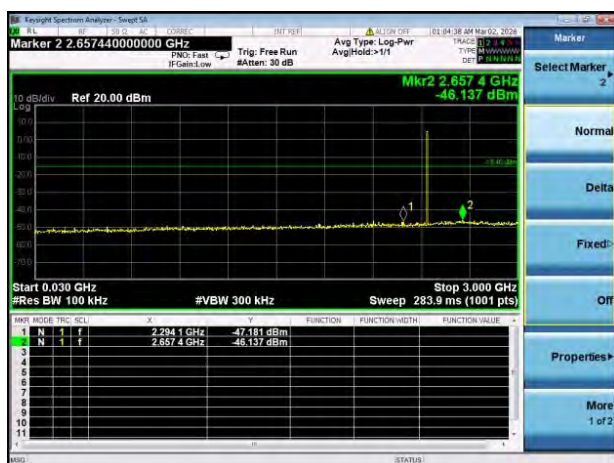
GFSK (BLE 1Mbps) LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



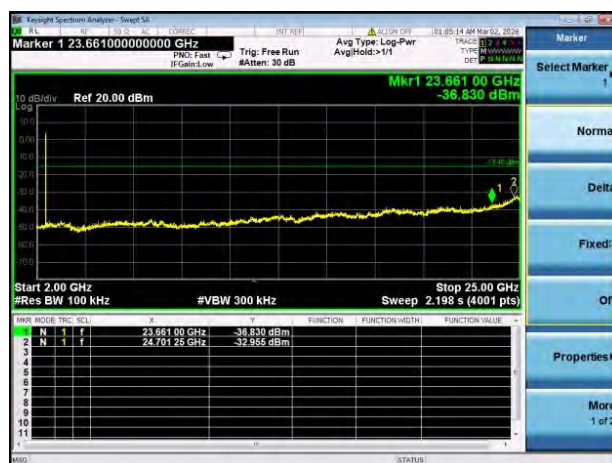
GFSK (BLE 1Mbps) MIDDLE CHANNEL, CARRIER LEVEL



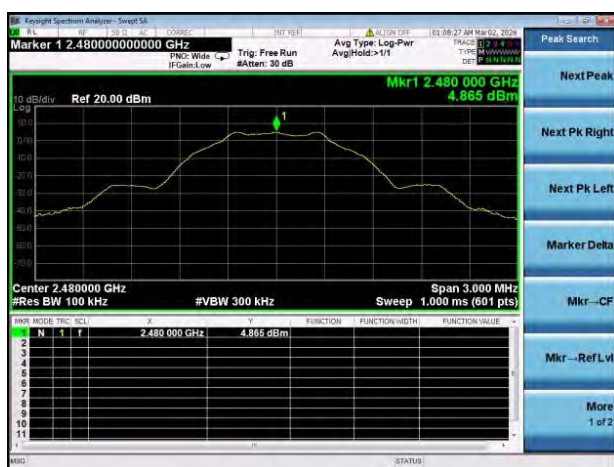
GFSK (BLE 1Mbps) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



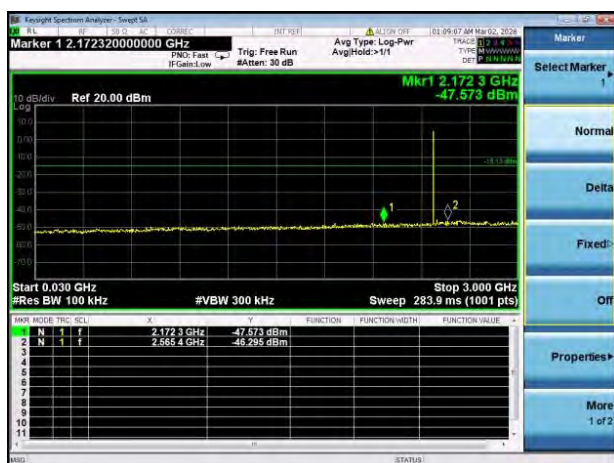
GFSK (BLE 1Mbps) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



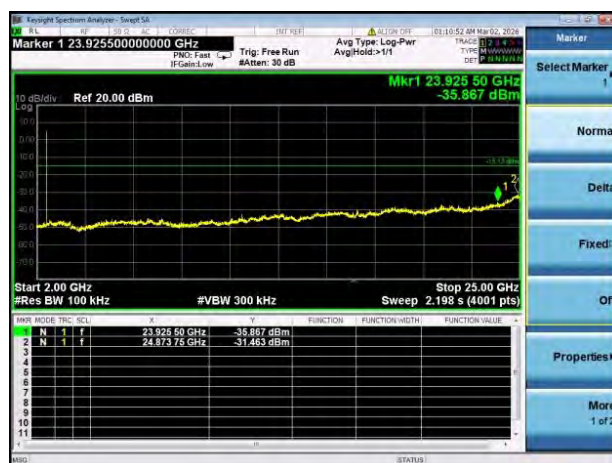
GFSK (BLE 1Mbps) HIGH CHANNEL, CARRIER LEVEL



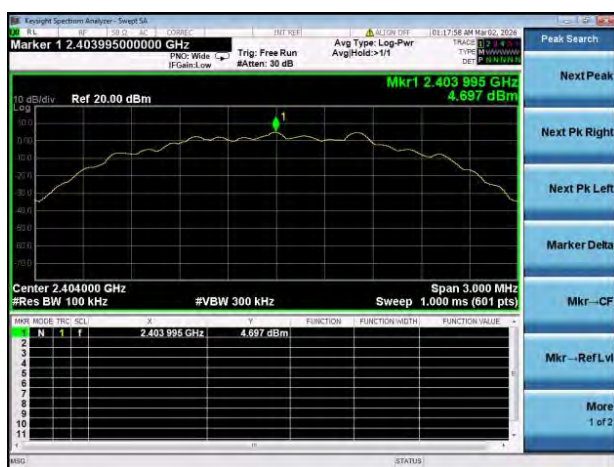
GFSK (BLE 1Mbps) HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



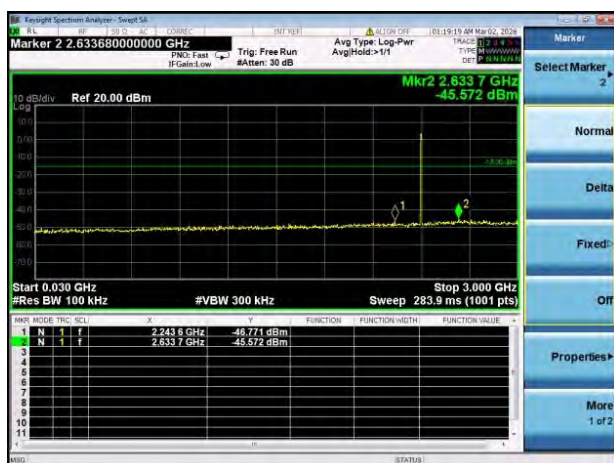
GFSK (BLE 1Mbps) HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



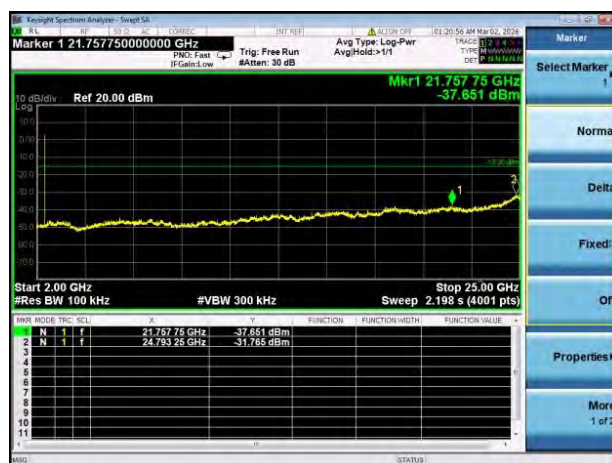
GFSK (BLE 2Mbps) LOW CHANNEL, CARRIER LEVEL



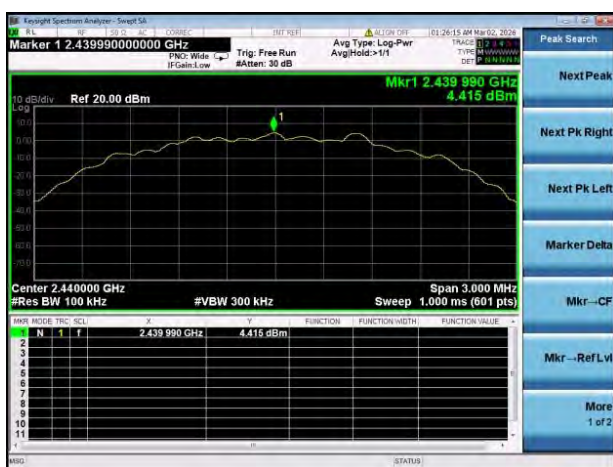
GFSK (BLE 2Mbps) LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



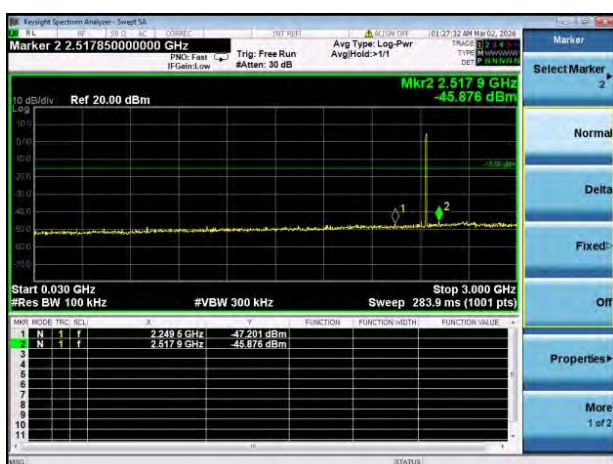
GFSK (BLE 2Mbps) LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



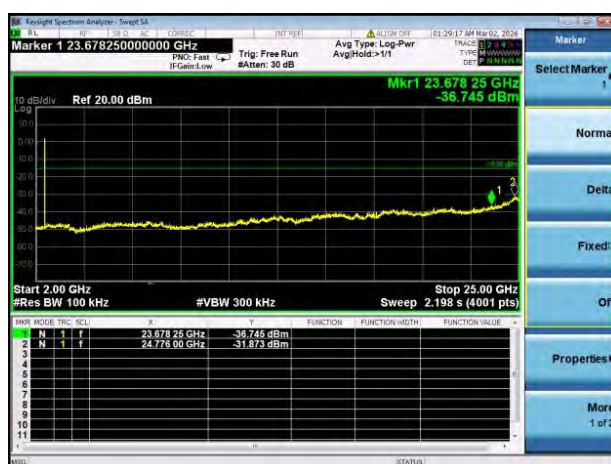
GFSK (BLE 2Mbps) MIDDLE CHANNEL, CARRIER LEVEL



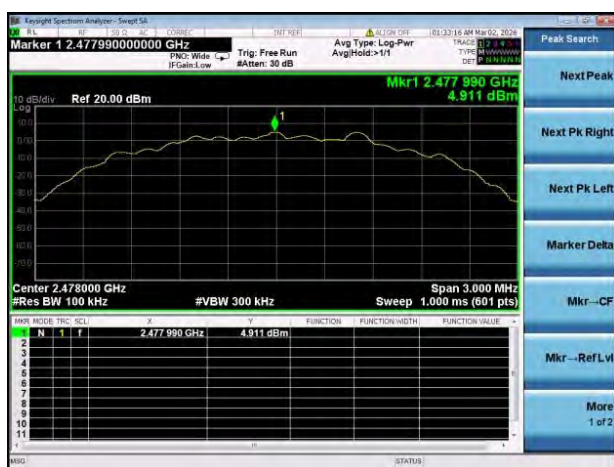
GFSK (BLE 2Mbps) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



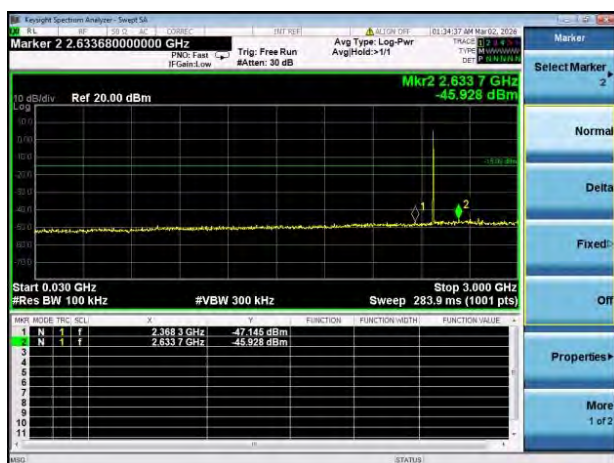
GFSK (BLE 2Mbps) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



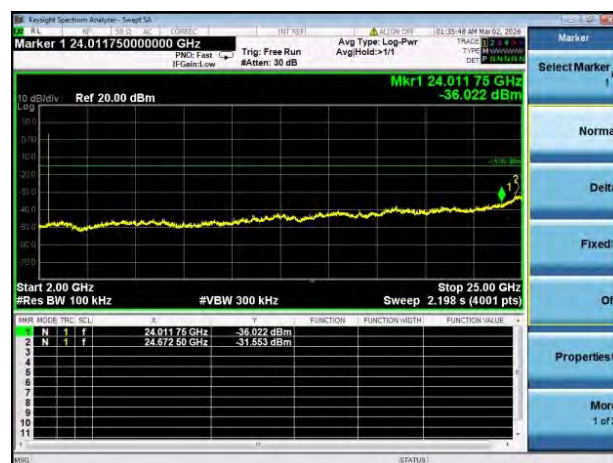
GFSK (BLE 2Mbps) HIGH CHANNEL, CARRIER LEVEL



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	-47.10	4.80	-15.20	Pass
High Channel	-47.41	4.87	-15.14	Pass

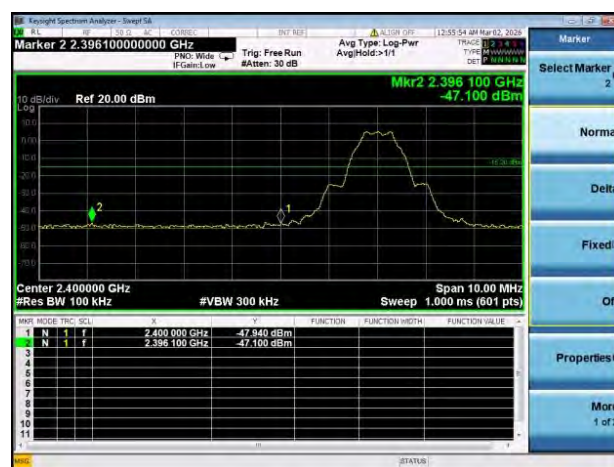
GFSK (BLE 2Mbps)				
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-46.86	4.70	-15.30	Pass
High Channel	-46.80	4.91	-15.09	Pass

Test Plots

GFSK (BLE 1Mbps) LOW CHANNEL, CARRIER LEVEL



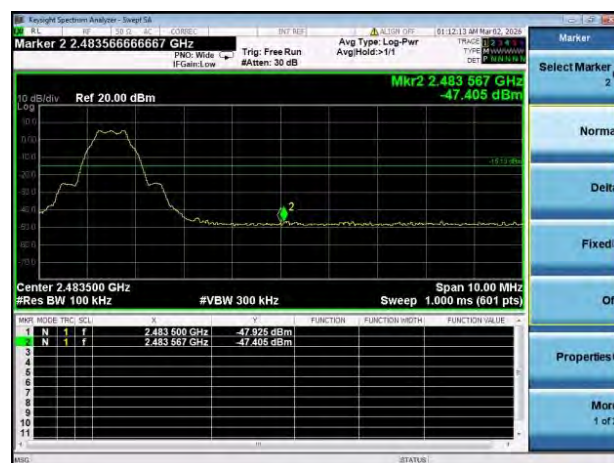
GFSK (BLE 1Mbps) LOW CHANNEL, BAND EDGE



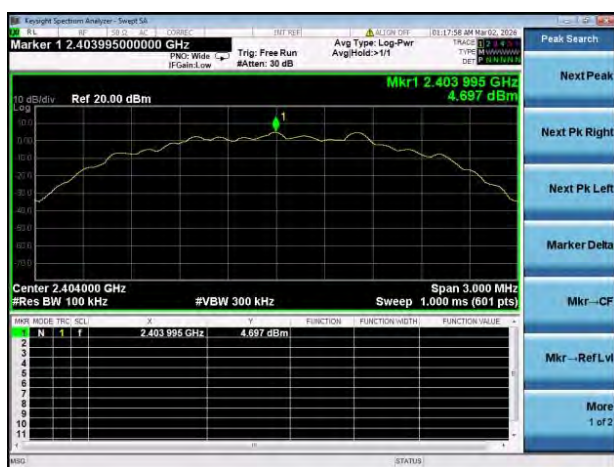
GFSK (BLE 1Mbps) HIGH CHANNEL, CARRIER LEVEL



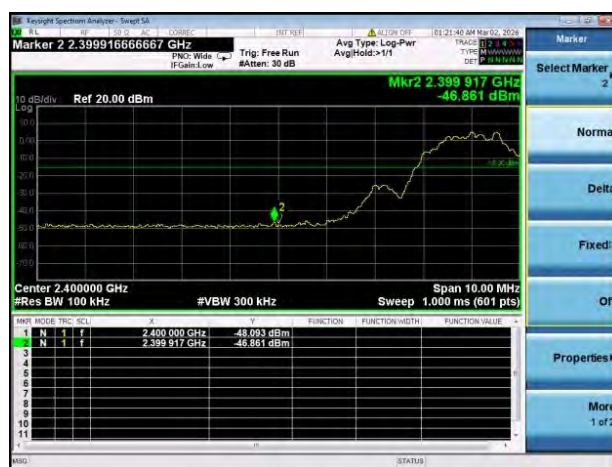
GFSK (BLE 1Mbps) HIGH CHANNEL, BAND EDGE



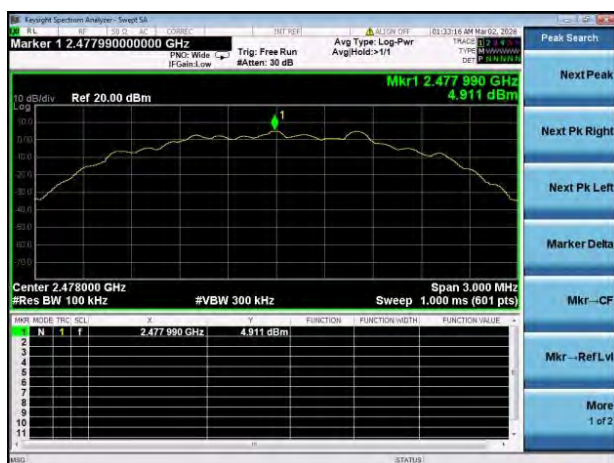
GFSK (BLE 2Mbps) LOW CHANNEL, CARRIER LEVEL



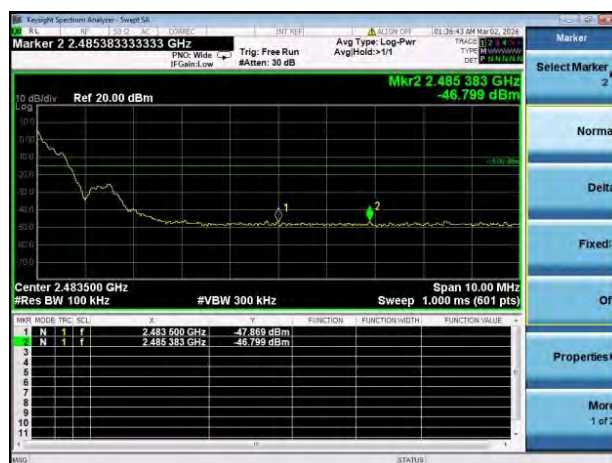
GFSK (BLE 2Mbps) LOW CHANNEL, BAND EDGE



GFSK (BLE 2Mbps) HIGH CHANNEL, CARRIER LEVEL



GFSK (BLE 2Mbps) HIGH CHANNEL, BAND EDGE



A.5 Conducted Emissions

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

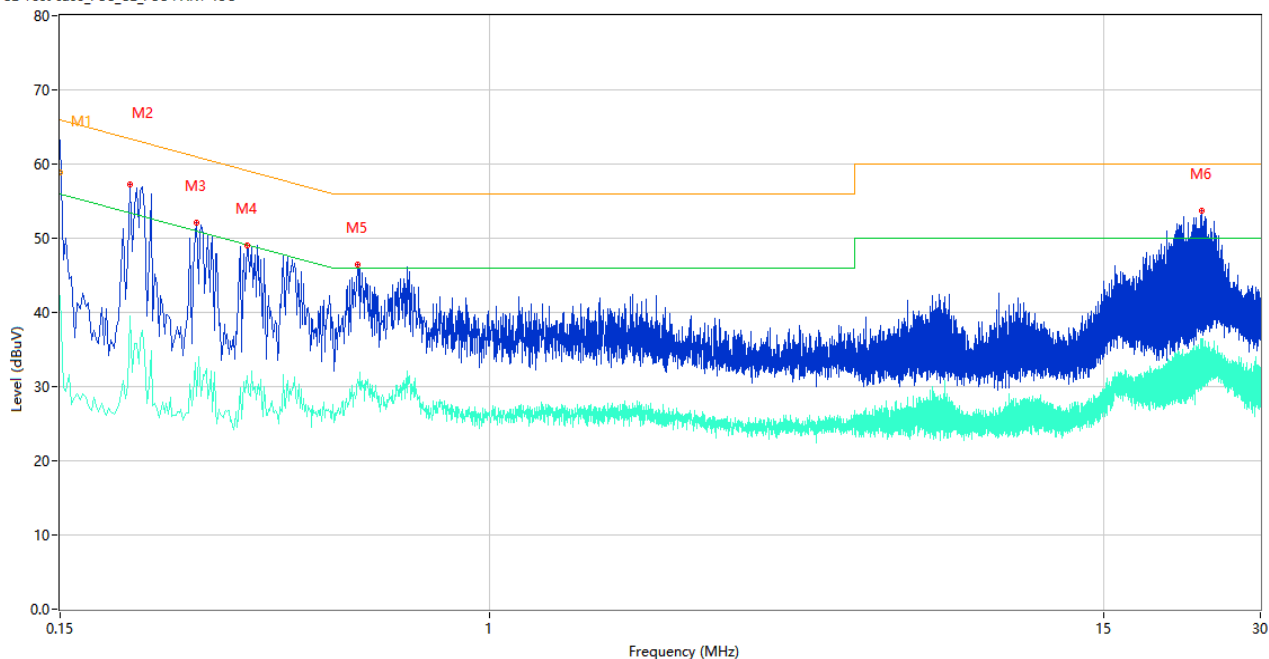
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

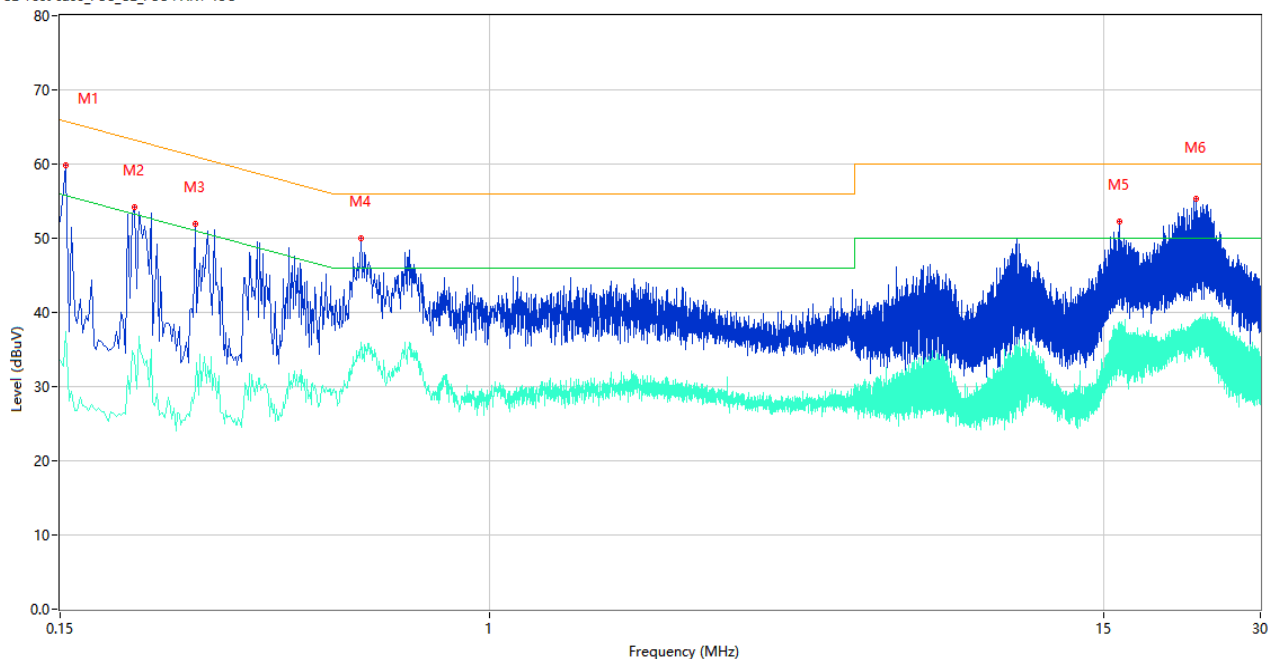
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	64.18	9.86	66.00	1.82	Peak	L	N/A
1*	0.150	58.83	9.86	66.00	7.17	QP	L	Pass
1**	0.150	42.26	9.86	56.00	13.74	AV	L	Pass
2	0.204	57.27	9.84	63.45	6.18	Peak	L	Pass
2**	0.204	39.44	9.84	53.45	14.01	AV	L	Pass
3	0.274	52.11	9.82	61.00	8.89	Peak	L	Pass
3**	0.274	28.75	9.82	51.00	22.25	AV	L	Pass
4	0.342	49.09	10.66	59.15	10.06	Peak	L	Pass
4**	0.342	31.47	10.66	49.15	17.68	AV	L	Pass
5	0.558	46.53	10.11	56.00	9.47	Peak	L	Pass
5**	0.558	30.95	10.11	46.00	15.05	AV	L	Pass
6	23.164	53.70	10.93	60.00	6.30	Peak	L	Pass
6**	23.164	33.37	10.93	50.00	16.63	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.154	59.91	9.86	65.78	5.87	Peak	N	Pass
1**	0.154	37.46	9.86	55.78	18.32	AV	N	Pass
2	0.208	54.27	9.83	63.28	9.01	Peak	N	Pass
2**	0.208	33.96	9.83	53.28	19.32	AV	N	Pass
3	0.272	51.87	9.82	61.06	9.19	Peak	N	Pass
3**	0.272	29.61	9.82	51.06	21.45	AV	N	Pass
4	0.566	50.04	10.13	56.00	5.96	Peak	N	Pass
4**	0.566	35.95	10.13	46.00	10.05	AV	N	Pass
5	16.116	52.18	10.70	60.00	7.82	Peak	N	Pass
5**	16.116	34.70	10.70	50.00	15.30	AV	N	Pass
6	22.628	55.34	11.19	60.00	4.66	Peak	N	Pass
6**	22.628	38.16	11.19	50.00	11.84	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.

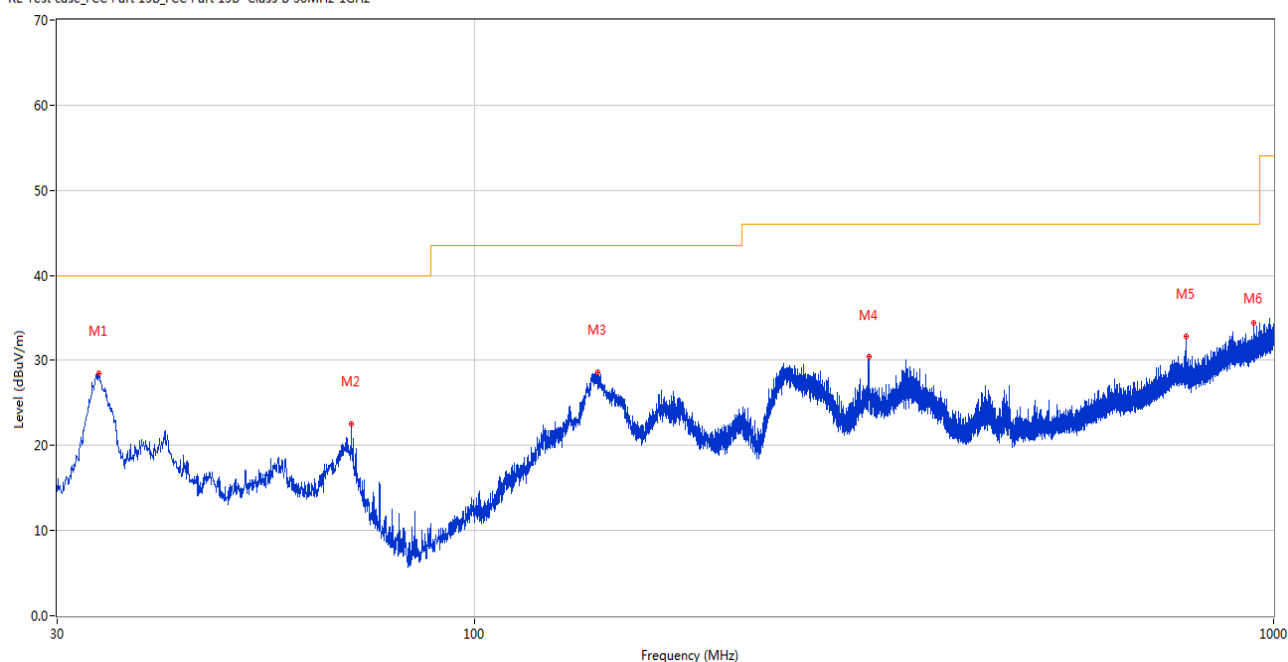
Note ⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and BLE 2M-High channel mode is the worst.

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

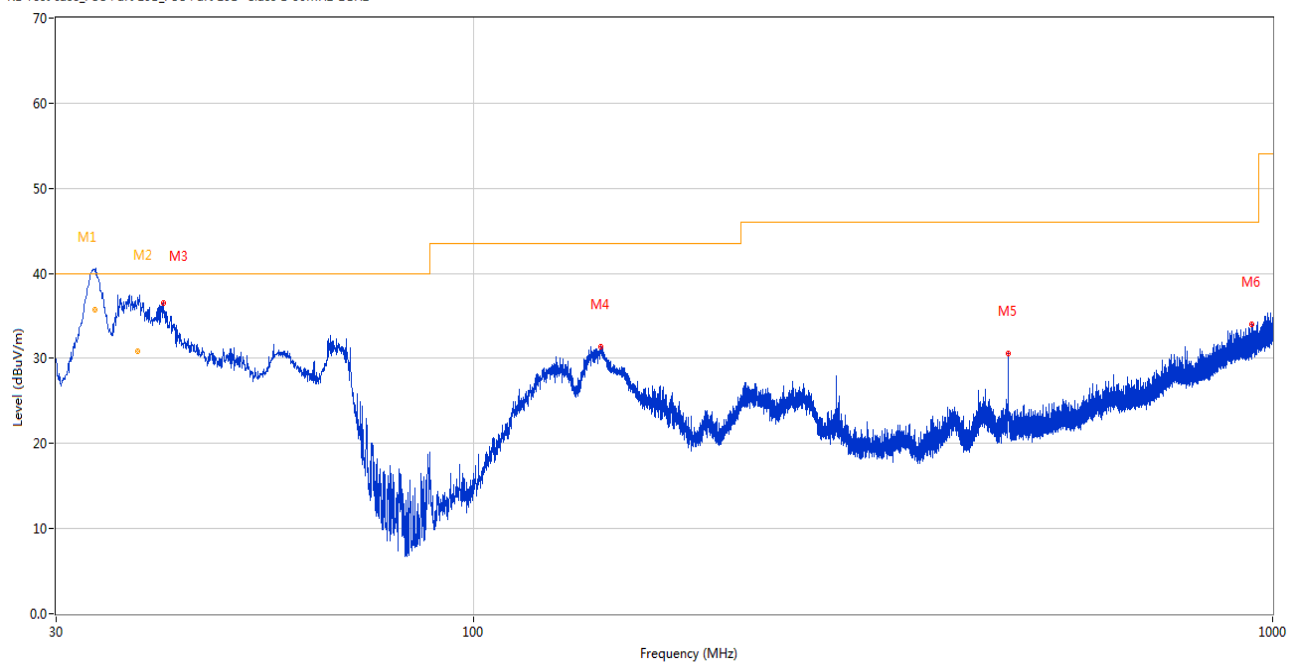
RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	33.880	28.52	-28.37	40.0	11.48	Peak	300.70	200	Horizontal	Pass
2	70.012	22.60	-28.37	40.0	17.40	Peak	37.90	200	Horizontal	Pass
3	142.472	28.59	-28.66	43.5	14.91	Peak	139.70	200	Horizontal	Pass
4	311.203	30.49	-21.21	46.0	15.51	Peak	293.00	100	Horizontal	Pass
5	777.919	32.85	-8.95	46.0	13.15	Peak	356.70	200	Horizontal	Pass
6	943.497	34.41	-5.37	46.0	11.59	Peak	0.00	200	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	33.556	39.57	-28.48	40.0	0.43	Peak	257.50	130	Vertical	N/A
1*	33.556	35.77	-28.48	40.0	4.23	QP	257.50	130	Vertical	Pass
2	37.961	36.33	-26.46	40.0	3.67	Peak	280.00	112	Vertical	N/A
2*	37.961	30.84	-26.46	40.0	9.16	QP	280.00	112	Vertical	Pass
3	40.913	36.54	-25.26	40.0	3.46	Peak	115.80	100	Vertical	Pass
4	144.266	31.43	-28.69	43.5	12.07	Peak	105.50	100	Vertical	Pass
5	466.694	30.60	-17.07	46.0	15.40	Peak	101.00	100	Vertical	Pass
6	942.867	34.03	-5.38	46.0	11.97	Peak	100.40	200	Vertical	Pass

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

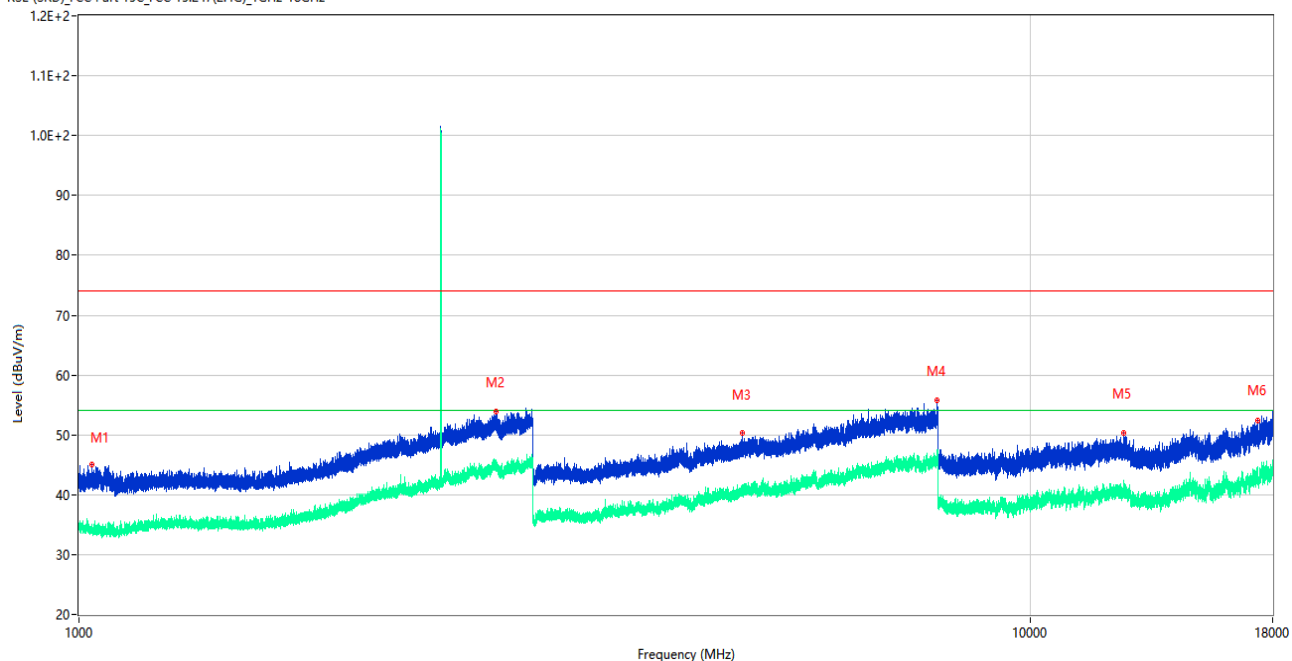
Note ²: The spurious from 18GHz-25GHz is noise only, do not show on the report

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1324.406	45.31	74.0	28.69	Peak	1.00	400	Horizontal	Pass
1**	1324.406	35.13	54.0	18.87	AV	1.00	400	Horizontal	Pass
2	1885.472	47.28	74.0	26.72	Peak	192.00	300	Horizontal	Pass
2**	1885.472	37.91	54.0	16.09	AV	192.00	300	Horizontal	Pass
3	5194.964	50.76	74.0	23.24	Peak	320.00	200	Horizontal	Pass
3**	5194.964	41.44	54.0	12.56	AV	320.00	200	Horizontal	Pass
4	7933.562	53.93	74.0	20.07	Peak	185.00	300	Horizontal	Pass
4**	7933.562	45.43	54.0	8.57	AV	185.00	300	Horizontal	Pass
5	12982.224	53.55	74.0	20.45	Peak	94.00	300	Horizontal	Pass
5**	12982.224	44.44	54.0	9.56	AV	94.00	300	Horizontal	Pass
6	17098.942	55.28	74.0	18.72	Peak	115.00	400	Horizontal	Pass
6**	17098.942	46.41	54.0	7.59	AV	115.00	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	1032.618	45.29	74.0	28.71	Peak	331.00	200	Vertical	Pass
1**	1032.618	34.64	54.0	19.36	AV	331.00	200	Vertical	Pass
2	2742.601	54.01	74.0	19.99	Peak	231.00	300	Vertical	Pass
2**	2742.601	44.86	54.0	9.14	AV	231.00	300	Vertical	Pass
3	4988.817	50.40	74.0	23.60	Peak	244.00	200	Vertical	Pass
3**	4988.817	41.64	54.0	12.36	AV	244.00	200	Vertical	Pass
4	7989.229	55.87	74.0	18.14	Peak	360.00	400	Vertical	Pass
4**	7989.229	46.51	54.0	7.49	AV	360.00	400	Vertical	Pass
5	12541.014	50.60	74.0	23.40	Peak	183.00	100	Vertical	Pass
5**	12541.014	41.14	54.0	12.87	AV	183.00	100	Vertical	Pass
6	17347.351	52.56	74.0	21.44	Peak	63.00	100	Vertical	Pass
6**	17347.351	43.65	54.0	10.35	AV	63.00	100	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	1325.034	44.96	74.0	29.04	Peak	98.00	200	Horizontal	Pass
1**	1325.034	34.16	54.0	19.84	AV	98.00	200	Horizontal	Pass
2	1886.983	46.62	74.0	27.38	Peak	276.00	300	Horizontal	Pass
2**	1886.983	37.00	54.0	17.00	AV	276.00	300	Horizontal	Pass
3	5196.420	50.32	74.0	23.68	Peak	240.00	200	Horizontal	Pass
3**	5196.420	40.53	54.0	13.47	AV	240.00	200	Horizontal	Pass
4	7937.754	53.17	74.0	20.83	Peak	140.00	100	Horizontal	Pass
4**	7937.754	45.05	54.0	8.95	AV	140.00	100	Horizontal	Pass
5	12986.228	53.39	74.0	20.61	Peak	6.00	100	Horizontal	Pass
5**	12986.228	43.83	54.0	10.17	AV	6.00	100	Horizontal	Pass
6	17097.161	54.64	74.0	19.36	Peak	88.00	200	Horizontal	Pass
6**	17097.161	45.85	54.0	8.15	AV	88.00	200	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	1029.682	44.48	74.0	29.52	Peak	290.00	300	Vertical	Pass
1**	1029.682	33.92	54.0	20.08	AV	290.00	300	Vertical	Pass
2	2746.201	53.90	74.0	20.10	Peak	142.00	100	Vertical	Pass
2**	2746.201	44.70	54.0	9.30	AV	142.00	100	Vertical	Pass
3	4988.721	50.31	74.0	23.69	Peak	296.00	200	Vertical	Pass
3**	4988.721	41.29	54.0	12.71	AV	296.00	200	Vertical	Pass
4	7983.690	55.85	74.0	18.16	Peak	214.00	100	Vertical	Pass
4**	7983.690	45.82	54.0	8.18	AV	214.00	100	Vertical	Pass
5	12542.570	49.74	74.0	24.26	Peak	253.00	100	Vertical	Pass
5**	12542.570	40.92	54.0	13.09	AV	253.00	100	Vertical	Pass
6	17350.452	52.14	74.0	21.86	Peak	289.00	200	Vertical	Pass
6**	17350.452	43.31	54.0	10.69	AV	289.00	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	1320.501	44.34	74.0	29.66	Peak	304.00	400	Horizontal	Pass
1**	1320.501	34.96	54.0	19.04	AV	304.00	400	Horizontal	Pass
2	1889.475	47.26	74.0	26.74	Peak	272.00	400	Horizontal	Pass
2**	1889.475	37.76	54.0	16.24	AV	272.00	400	Horizontal	Pass
3	5200.877	50.46	74.0	23.54	Peak	271.00	200	Horizontal	Pass
3**	5200.877	41.06	54.0	12.94	AV	271.00	200	Horizontal	Pass
4	7935.793	53.81	74.0	20.19	Peak	323.00	300	Horizontal	Pass
4**	7935.793	44.80	54.0	9.20	AV	323.00	300	Horizontal	Pass
5	12986.497	53.21	74.0	20.79	Peak	142.00	200	Horizontal	Pass
5**	12986.497	44.00	54.0	10.00	AV	142.00	200	Horizontal	Pass
6	17100.571	54.43	74.0	19.57	Peak	205.00	200	Horizontal	Pass
6**	17100.571	46.29	54.0	7.71	AV	205.00	200	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	1027.768	45.28	74.0	28.72	Peak	23.00	200	Vertical	Pass
1**	1027.768	34.64	54.0	19.37	AV	23.00	200	Vertical	Pass
2	2744.215	53.93	74.0	20.07	Peak	56.00	200	Vertical	Pass
2**	2744.215	44.76	54.0	9.24	AV	56.00	200	Vertical	Pass
3	4982.132	50.32	74.0	23.68	Peak	120.00	200	Vertical	Pass
3**	4982.132	41.58	54.0	12.42	AV	120.00	200	Vertical	Pass
4	7986.827	55.84	74.0	18.16	Peak	73.00	300	Vertical	Pass
4**	7986.827	46.50	54.0	7.50	AV	73.00	300	Vertical	Pass
5	12544.617	50.59	74.0	23.41	Peak	294.00	300	Vertical	Pass
5**	12544.617	41.08	54.0	12.92	AV	294.00	300	Vertical	Pass
6	17347.291	52.55	74.0	21.45	Peak	261.00	300	Vertical	Pass
6**	17347.291	43.60	54.0	10.40	AV	261.00	300	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	1282.839	44.53	74.0	29.47	Peak	160.00	400	Horizontal	Pass
1**	1282.839	34.83	54.0	19.17	AV	160.00	400	Horizontal	Pass
2	2774.384	46.91	74.0	27.09	Peak	134.00	100	Horizontal	Pass
2**	2774.384	37.08	54.0	16.92	AV	134.00	100	Horizontal	Pass
3	5169.130	50.39	74.0	23.61	Peak	358.00	200	Horizontal	Pass
3**	5169.130	41.03	54.0	12.97	AV	358.00	200	Horizontal	Pass
4	6808.186	53.13	74.0	20.87	Peak	241.00	200	Horizontal	Pass
4**	6808.186	44.59	54.0	9.41	AV	241.00	200	Horizontal	Pass
5	13466.636	52.96	74.0	21.04	Peak	357.00	200	Horizontal	Pass
5**	13466.636	43.71	54.0	10.29	AV	357.00	200	Horizontal	Pass
6	17469.247	54.72	74.0	19.28	Peak	99.00	300	Horizontal	Pass
6**	17469.247	45.59	54.0	8.41	AV	99.00	300	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	1283.851	45.20	74.0	28.81	Peak	192.00	400	Vertical	Pass
1**	1283.851	34.56	54.0	19.44	AV	192.00	400	Vertical	Pass
2	2774.134	53.94	74.0	20.06	Peak	79.00	200	Vertical	Pass
2**	2774.134	44.76	54.0	9.24	AV	79.00	200	Vertical	Pass
3	5165.872	50.30	74.0	23.70	Peak	231.00	200	Vertical	Pass
3**	5165.872	41.54	54.0	12.46	AV	231.00	200	Vertical	Pass
4	6803.735	55.84	74.0	18.16	Peak	324.00	300	Vertical	Pass
4**	6803.735	46.48	54.0	7.52	AV	324.00	300	Vertical	Pass
5	13468.204	50.59	74.0	23.41	Peak	53.00	200	Vertical	Pass
5**	13468.204	41.09	54.0	12.91	AV	53.00	200	Vertical	Pass
6	17469.988	52.54	74.0	21.46	Peak	169.00	100	Vertical	Pass
6**	17469.988	43.62	54.0	10.38	AV	169.00	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	1287.460	45.00	74.0	29.00	Peak	226.00	300	Horizontal	Pass
1**	1287.460	35.03	54.0	18.97	AV	226.00	300	Horizontal	Pass
2	2773.598	46.93	74.0	27.07	Peak	332.00	100	Horizontal	Pass
2**	2773.598	37.15	54.0	16.85	AV	332.00	100	Horizontal	Pass
3	5169.828	50.35	74.0	23.65	Peak	236.00	200	Horizontal	Pass
3**	5169.828	40.84	54.0	13.16	AV	236.00	200	Horizontal	Pass
4	6803.270	53.14	74.0	20.86	Peak	244.00	400	Horizontal	Pass
4**	6803.270	45.12	54.0	8.88	AV	244.00	400	Horizontal	Pass
5	13464.651	53.31	74.0	20.69	Peak	23.00	200	Horizontal	Pass
5**	13464.651	43.47	54.0	10.53	AV	23.00	200	Horizontal	Pass
6	17467.896	55.12	74.0	18.88	Peak	280.00	300	Horizontal	Pass
6**	17467.896	45.75	54.0	8.25	AV	280.00	300	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	1283.490	45.23	74.0	28.77	Peak	130.00	100	Vertical	Pass
1**	1283.490	34.59	54.0	19.41	AV	130.00	100	Vertical	Pass
2	2767.718	53.98	74.0	20.02	Peak	345.00	300	Vertical	Pass
2**	2767.718	44.77	54.0	9.23	AV	345.00	300	Vertical	Pass
3	5166.144	50.37	74.0	23.63	Peak	337.00	200	Vertical	Pass
3**	5166.144	41.56	54.0	12.44	AV	337.00	200	Vertical	Pass
4	6803.096	55.81	74.0	18.19	Peak	128.00	400	Vertical	Pass
4**	6803.096	46.50	54.0	7.50	AV	128.00	400	Vertical	Pass
5	13464.717	50.57	74.0	23.44	Peak	354.00	400	Vertical	Pass
5**	13464.717	41.11	54.0	12.89	AV	354.00	400	Vertical	Pass
6	17463.772	52.50	74.0	21.50	Peak	176.00	100	Vertical	Pass
6**	17463.772	43.57	54.0	10.43	AV	176.00	100	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	1281.993	44.84	74.0	29.16	Peak	169.00	400	Horizontal	Pass
1**	1281.993	34.68	54.0	19.32	AV	169.00	400	Horizontal	Pass
2	2774.108	46.68	74.0	27.32	Peak	4.00	400	Horizontal	Pass
2**	2774.108	37.85	54.0	16.15	AV	4.00	400	Horizontal	Pass
3	5391.073	50.45	74.0	23.55	Peak	78.00	200	Horizontal	Pass
3**	5391.073	41.09	54.0	12.91	AV	78.00	200	Horizontal	Pass
4	6517.327	53.47	74.0	20.53	Peak	126.00	100	Horizontal	Pass
4**	6517.327	44.48	54.0	9.52	AV	126.00	100	Horizontal	Pass
5	13349.939	53.39	74.0	20.61	Peak	66.00	400	Horizontal	Pass
5**	13349.939	44.41	54.0	9.59	AV	66.00	400	Horizontal	Pass
6	17441.819	55.24	74.0	18.76	Peak	27.00	400	Horizontal	Pass
6**	17441.819	46.21	54.0	7.79	AV	27.00	400	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	1288.862	45.28	74.0	28.72	Peak	101.00	100	Vertical	Pass
1**	1288.862	34.61	54.0	19.39	AV	101.00	100	Vertical	Pass
2	2774.599	53.95	74.0	20.05	Peak	346.00	400	Vertical	Pass
2**	2774.599	44.81	54.0	9.19	AV	346.00	400	Vertical	Pass
3	5288.483	50.35	74.0	23.65	Peak	279.00	200	Vertical	Pass
3**	5288.483	41.59	54.0	12.41	AV	279.00	200	Vertical	Pass
4	6651.803	55.77	74.0	18.23	Peak	354.00	300	Vertical	Pass
4**	6651.803	46.49	54.0	7.51	AV	354.00	300	Vertical	Pass
5	13311.056	50.59	74.0	23.41	Peak	160.00	300	Vertical	Pass
5**	13311.056	41.11	54.0	12.89	AV	160.00	300	Vertical	Pass
6	17422.352	52.48	74.0	21.52	Peak	301.00	100	Vertical	Pass
6**	17422.352	43.63	54.0	10.37	AV	301.00	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.

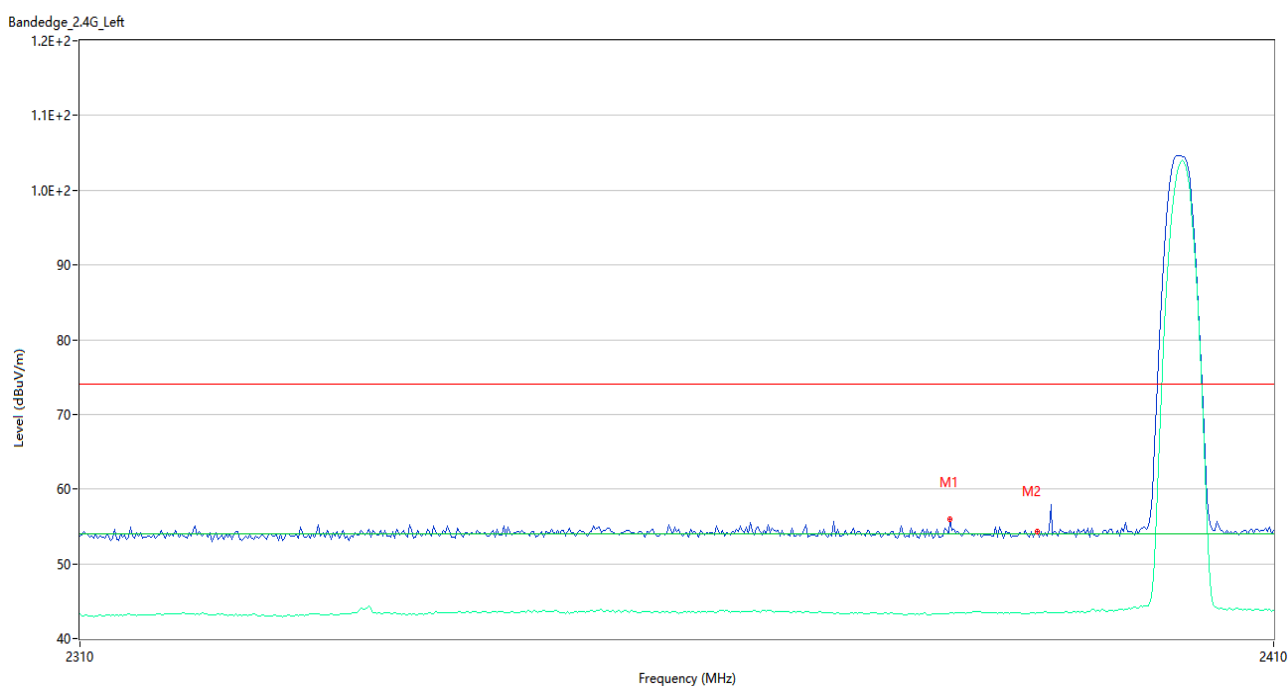
Note ³: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.

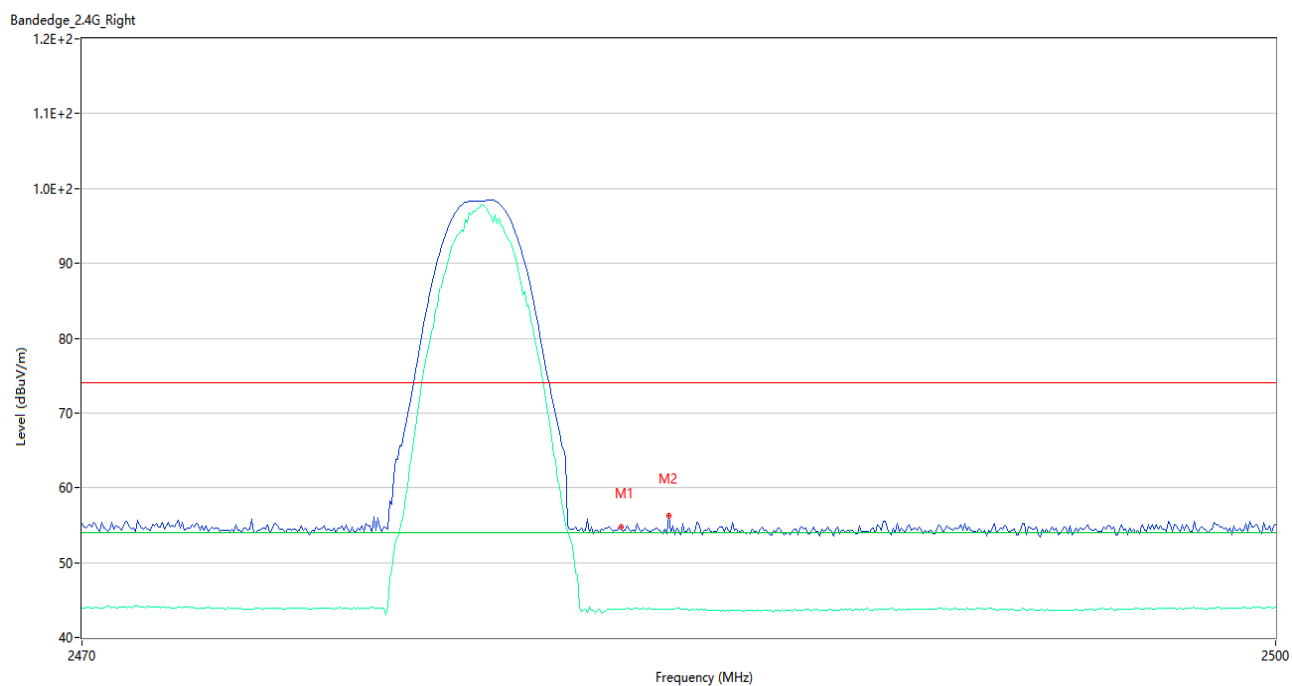
Test Data and Plots

GFSK (BLE 1Mbps) LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2381.599	56.05	74.0	17.95	Peak	305.00	100	Vertical	Pass
1**	2381.599	43.39	54.0	10.61	AV	305.00	100	Vertical	Pass
2	2390.000	54.72	74.0	19.28	Peak	295.00	100	Vertical	Pass
2**	2390.000	44.25	54.0	9.75	AV	295.00	100	Vertical	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	2483.500	53.03	74.0	20.97	Peak	12.00	100	Vertical	Pass
1**	2483.500	42.93	54.0	11.07	AV	12.00	100	Vertical	Pass
2	2485.035	56.48	74.0	17.52	Peak	238.00	100	Vertical	Pass
2**	2485.035	44.67	54.0	9.33	AV	238.00	100	Vertical	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	2348.789	55.98	74.0	18.02	Peak	347.00	200	Vertical	Pass
1**	2348.789	42.83	54.0	11.17	AV	347.00	200	Vertical	Pass
2	2390.000	51.6	74.0	22.40	Peak	93.00	200	Vertical	Pass
2**	2390.000	41.84	54.0	12.16	AV	93.00	200	Vertical	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	54.89	74.0	19.11	Peak	213.00	300	Vertical	Pass
1**	2483.500	43.77	54.0	10.23	AV	213.00	300	Vertical	Pass
2	2490.285	55.60	74.0	18.40	Peak	339.00	300	Vertical	Pass
2**	2490.285	43.51	54.0	10.49	AV	339.00	300	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	-9.17	8	Pass
Middle Channel	-9.45	8	Pass
High Channel	-9.22	8	Pass

GFSK (BLE 2Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-12.90	8	Pass
Middle Channel	-13.14	8	Pass
High Channel	-12.65	8	Pass

Test Plots

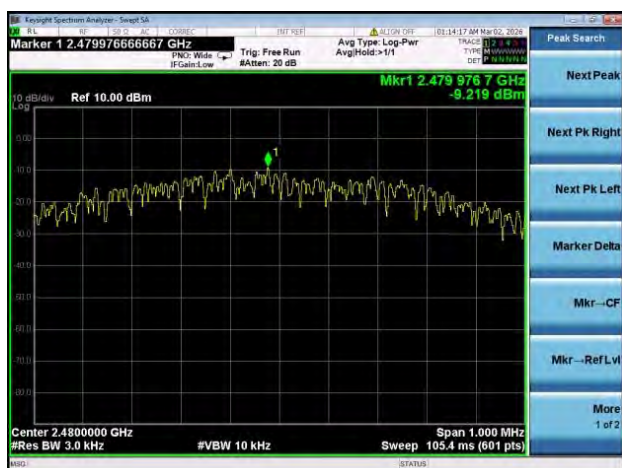
GFSK (BLE 1Mbps) LOW CHANNEL



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 “Ti-EE26020131-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-EE26020131-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-EE26020131-AI.PDF”.

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--END OF REPORT--