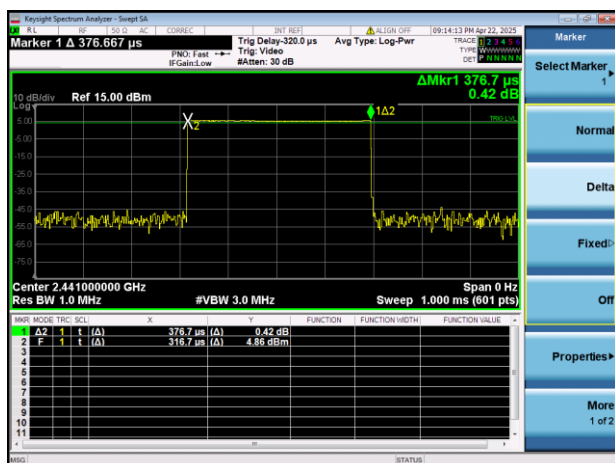
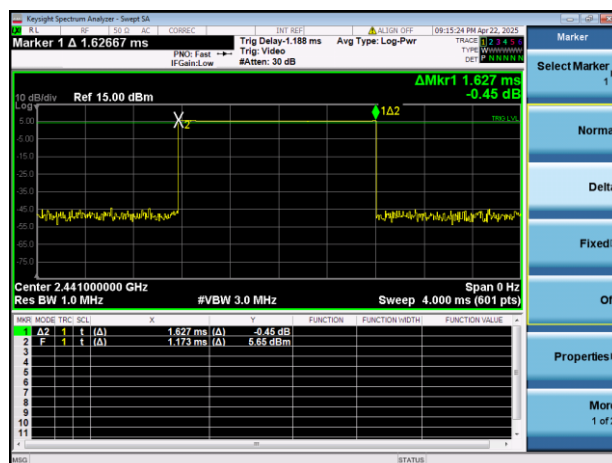


Test Plots

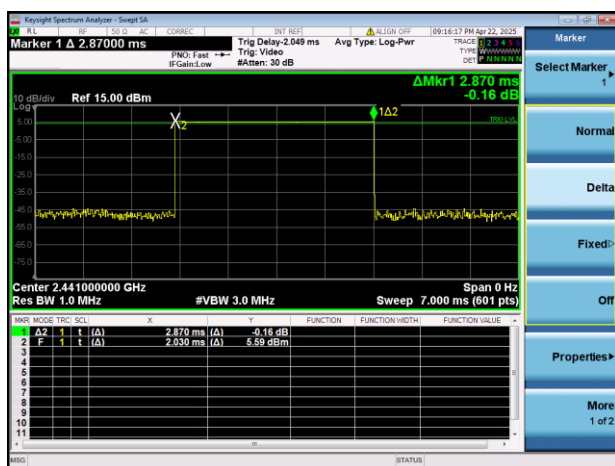
GFSK DH1



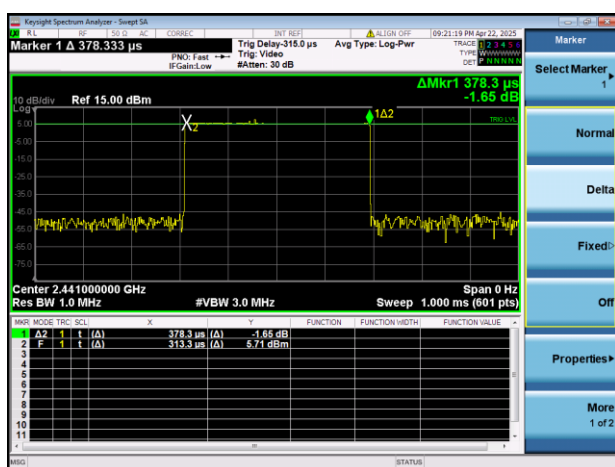
GFSK DH3



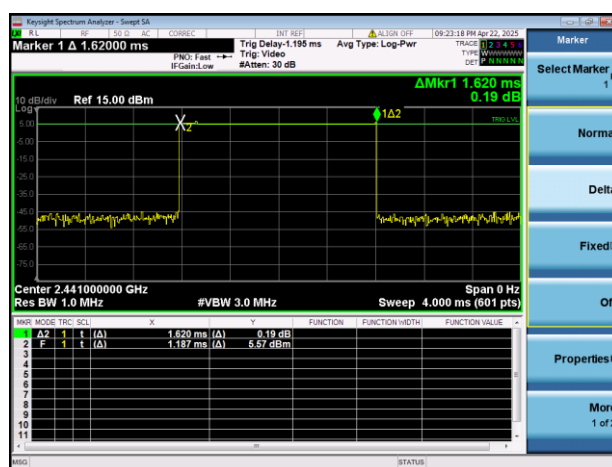
GFSK DH5



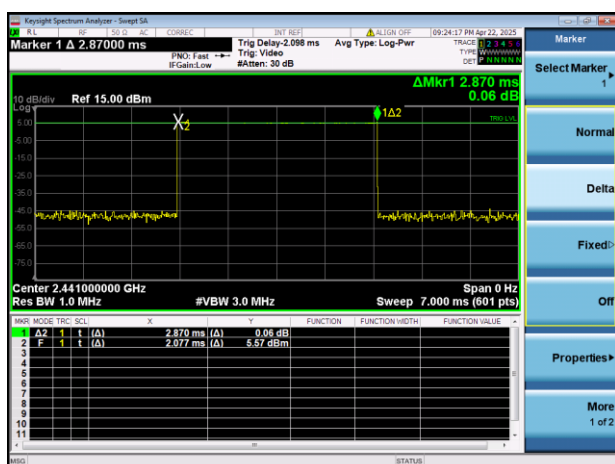
8-DPSK DH1



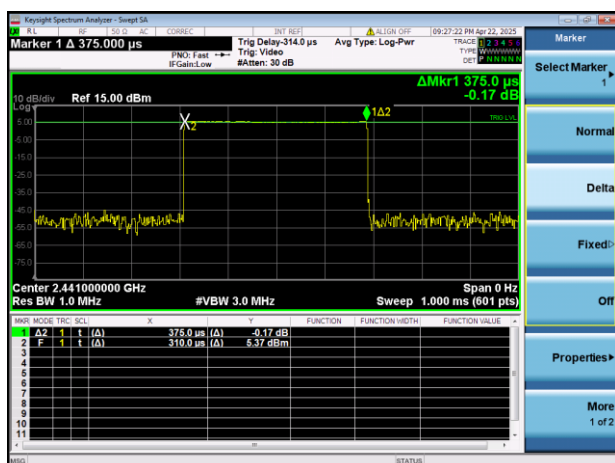
8-DPSK DH3



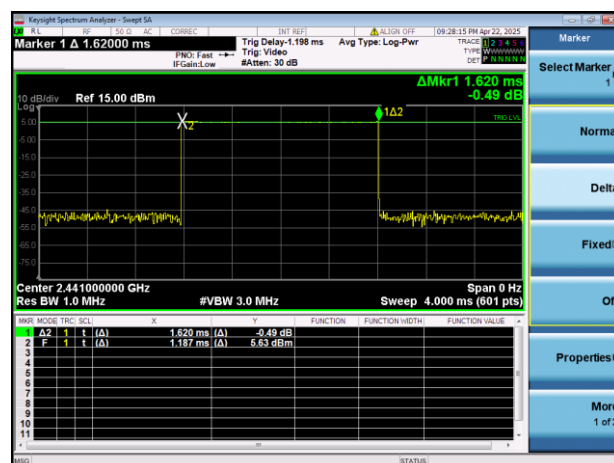
8-DPSK DH5



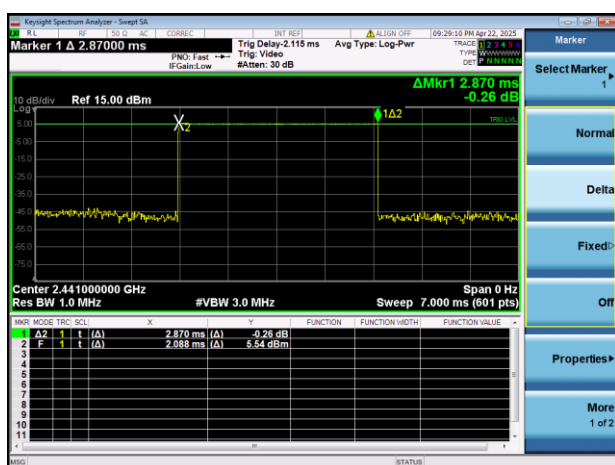
AFH Mode DH1



AFH Mode DH3



AFH Mode DH5



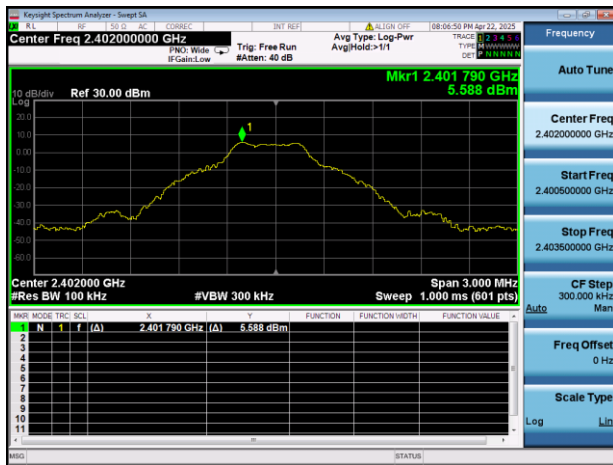
A.6 Conducted Spurious Emissions & Authorized-band band-edge

Test Data

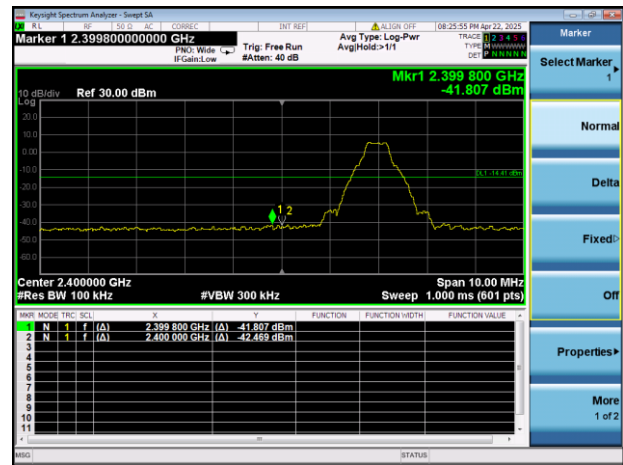
GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-25.53	5.59	-14.41	Pass
Middle	-26.48	5.56	-14.44	Pass
High	-25.94	5.40	-14.60	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-24.92	5.24	-14.77	Pass
Middle	-25.18	5.25	-14.75	Pass
High	-25.60	5.15	-14.85	Pass
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-26.03	5.40	-14.60	Pass
8-DPSK	-25.88	5.49	-14.51	Pass

Test Plots

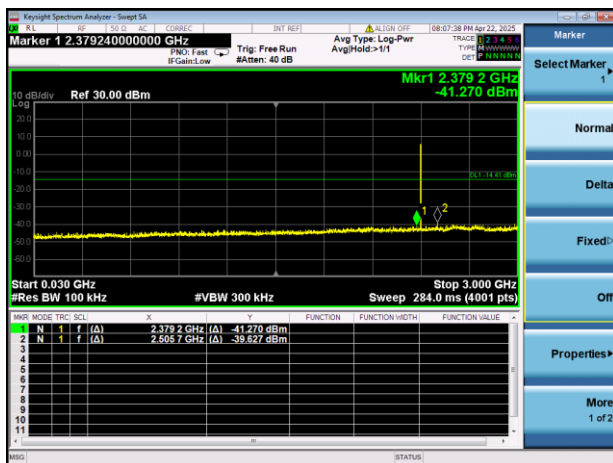
GFSK LOW CHANNEL, CARRIER LEVEL



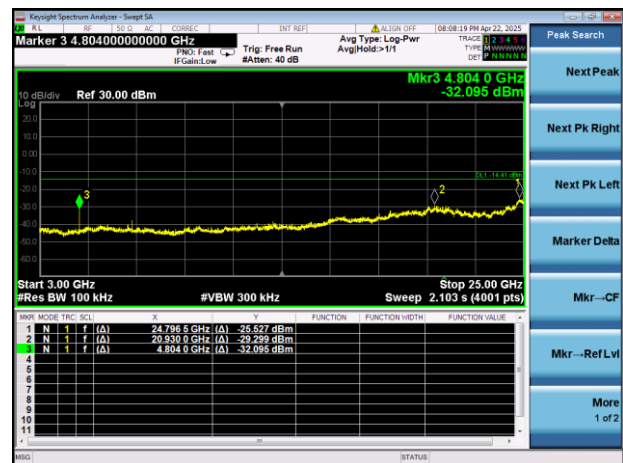
GFSK LOW CHANNEL, BAND EDGE



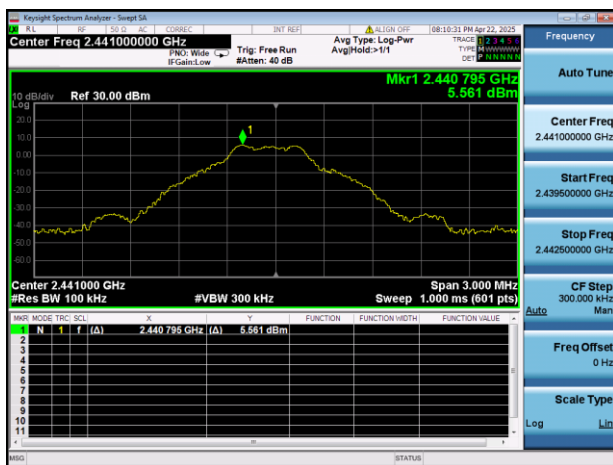
GFSK LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



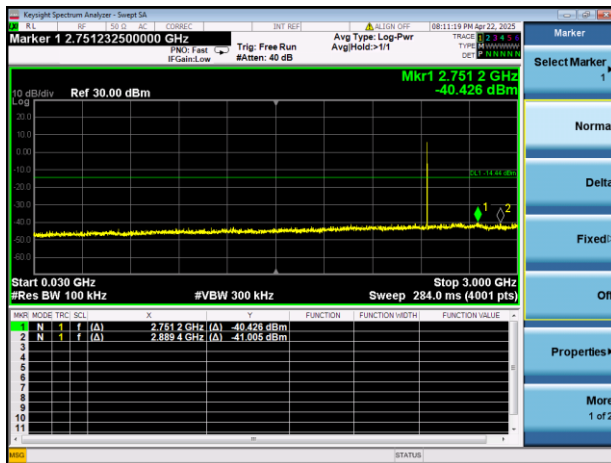
GFSK LOW CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



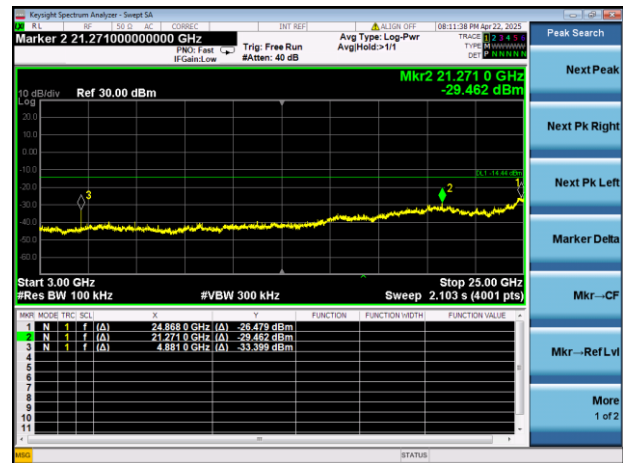
GFSK MIDDLE CHANNEL, CARRIER LEVEL



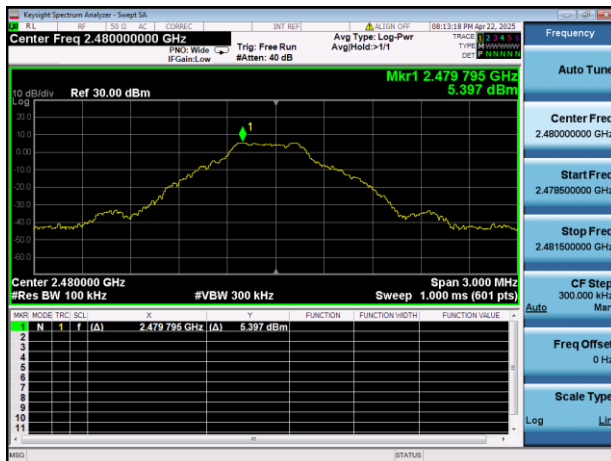
GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



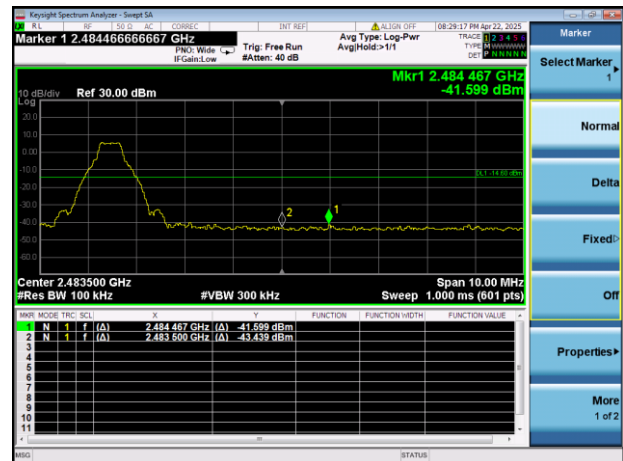
GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



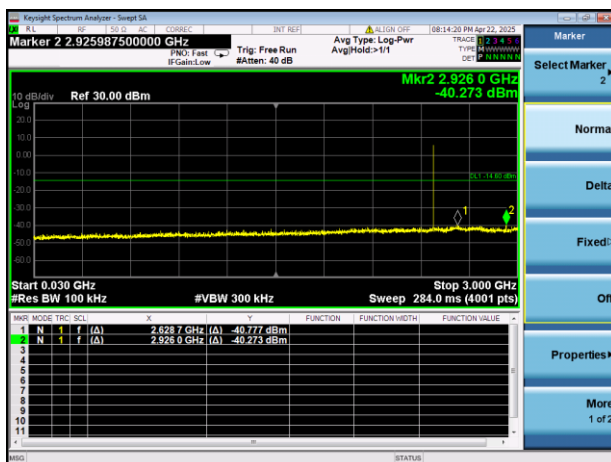
GFSK HIGH CHANNEL, CARRIER LEVEL



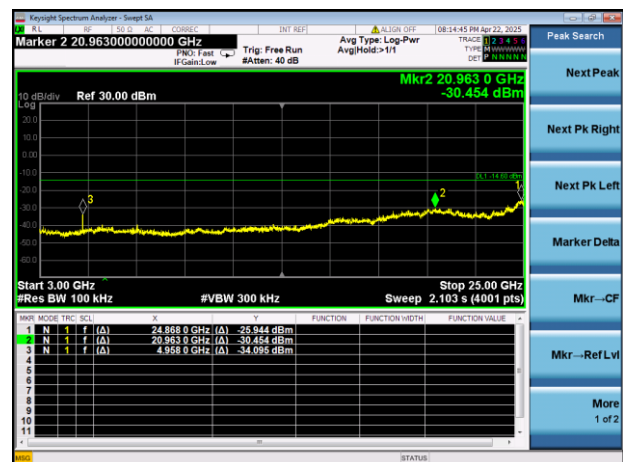
GFSK HIGH CHANNEL, BAND EDGE



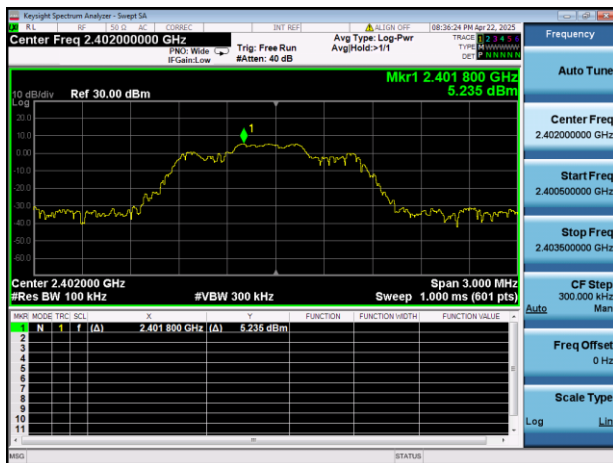
GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



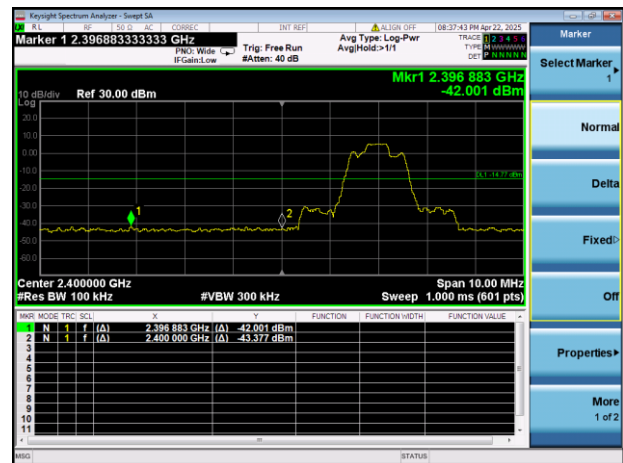
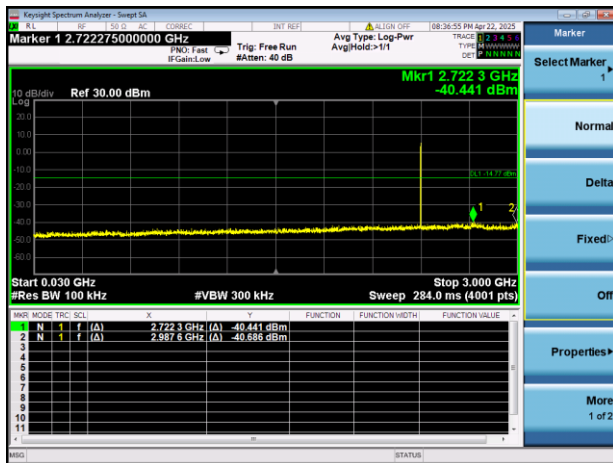
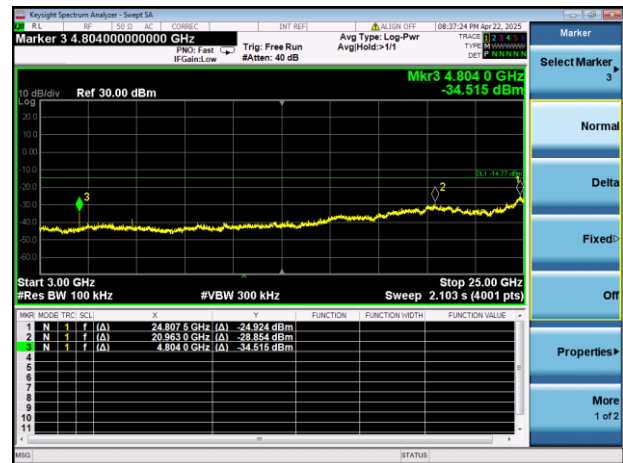
GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



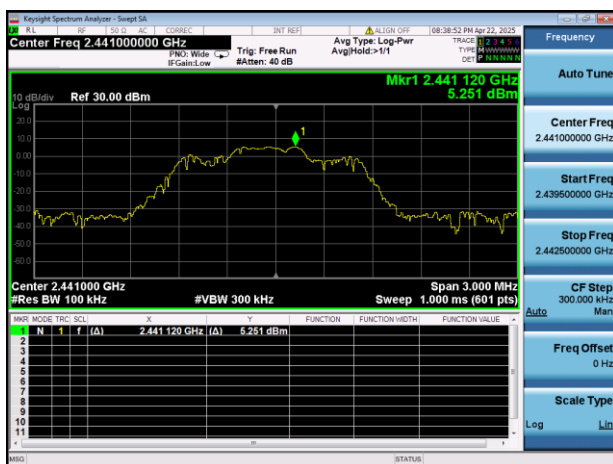
8-DPSK LOW CHANNEL, CARRIER LEVEL



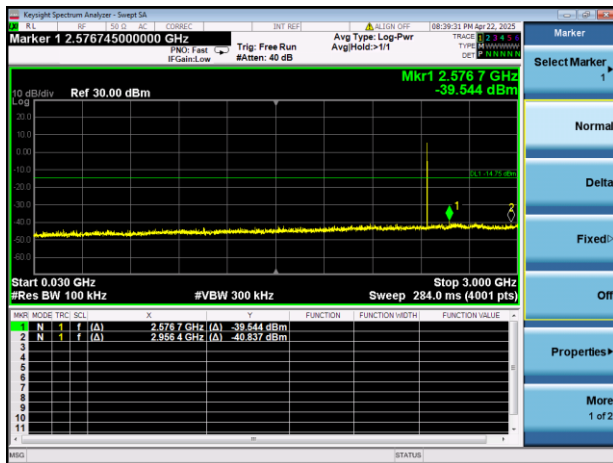
8-DPSK LOW CHANNEL, BAND EDGE

8-DPSK LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz8-DPSK LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

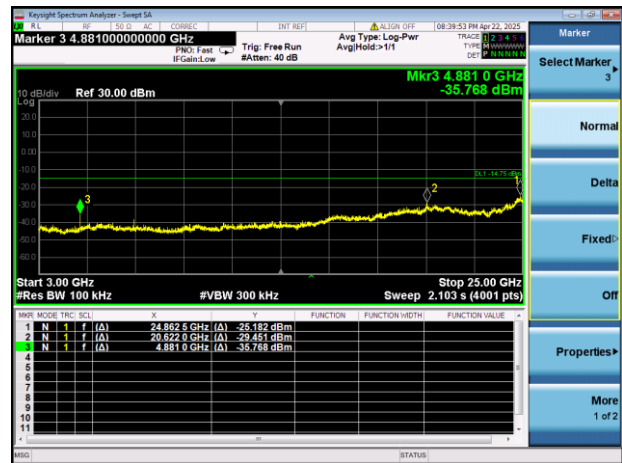
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



8-DPSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



8-DPSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



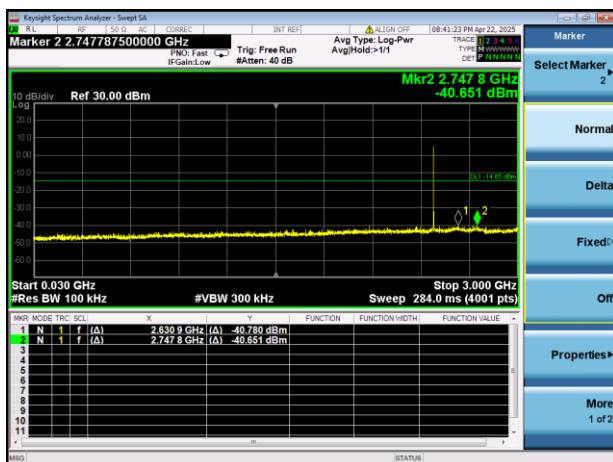
8-DPSK HIGH CHANNEL, CARRIER LEVEL



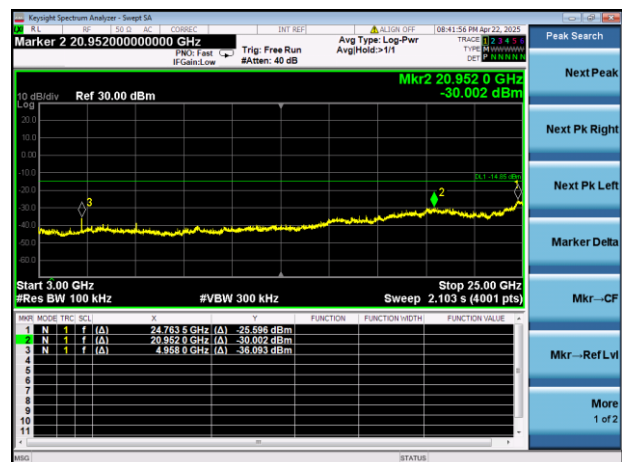
8-DPSK HIGH CHANNEL, BAND EDGE



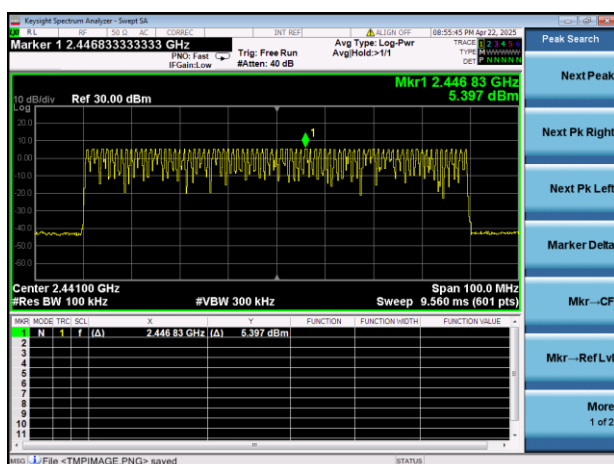
8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



8-DPSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



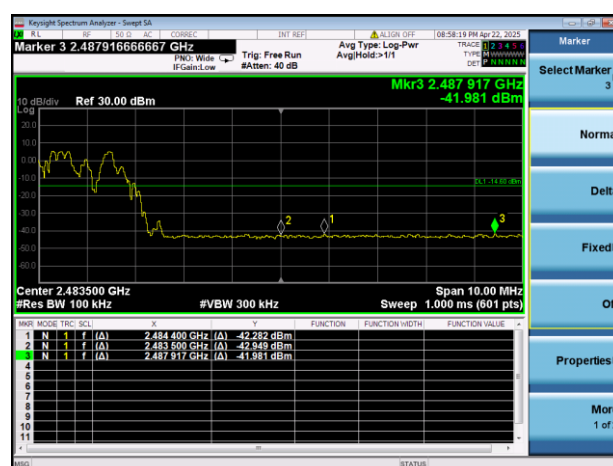
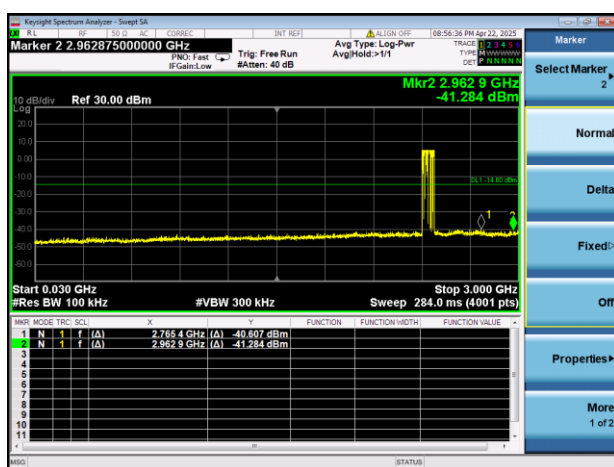
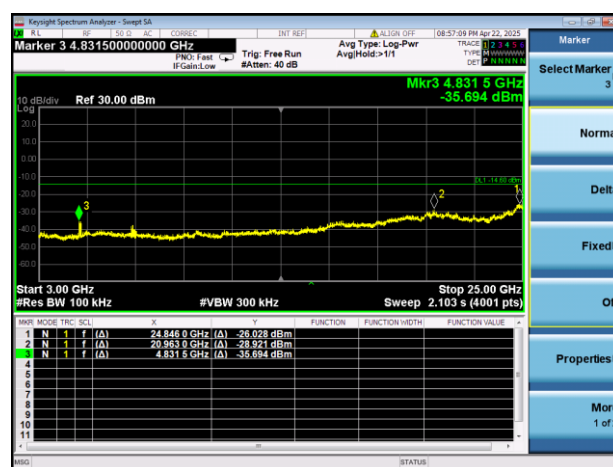
GFSK HOPPING, CARRIER LEVEL



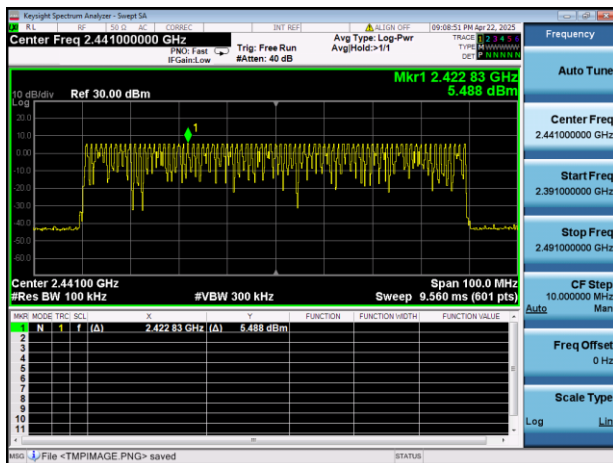
GFSK HOPPING BAND EDGE (LOW)



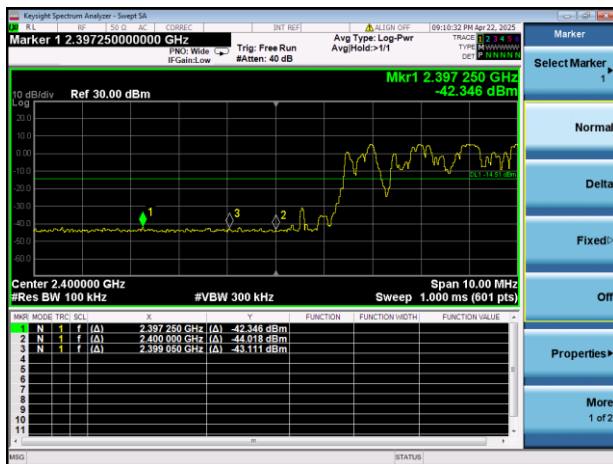
GFSK HOPPING BAND EDGE (HIGH)

GFSK Hopping Mode, SPURIOUS
30 MHz ~ 3 GHzGFSK Hopping Mode, SPURIOUS
3GHz ~ 25 GHz

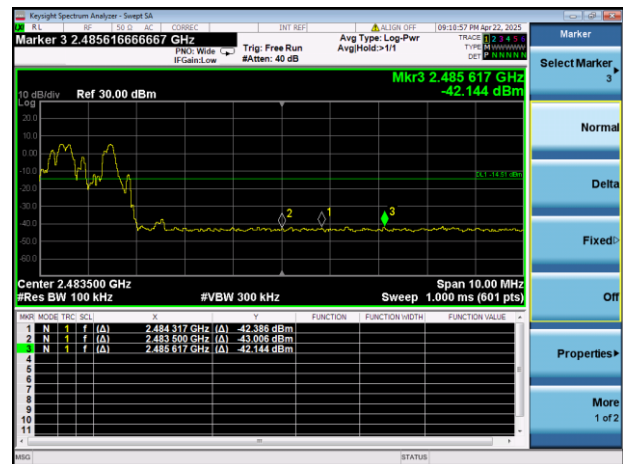
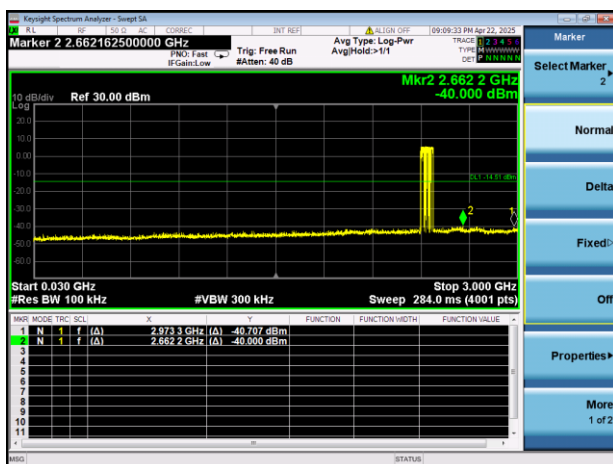
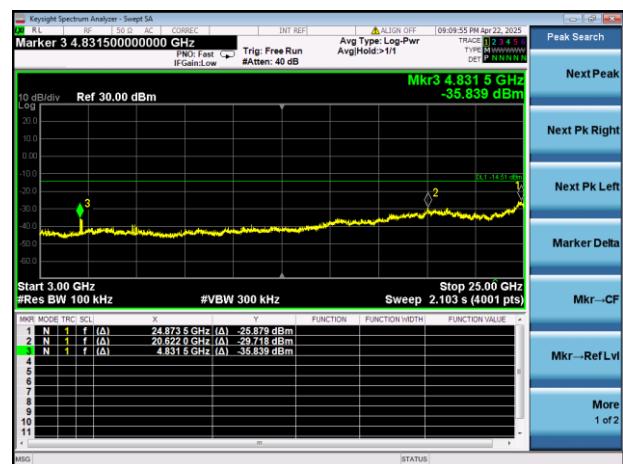
8-DPSK HOPPING, CARRIER LEVEL



8-DPSK Hopping BAND EDGE (LOW)



8-DPSK Hopping BAND EDGE (HIGH)

8-DPSK Hopping Mode, SPURIOUS
30 MHz ~ 3 GHz8-DPSK Hopping Mode, SPURIOUS
3GHz ~ 25 GHz

A.7 Conducted Emission

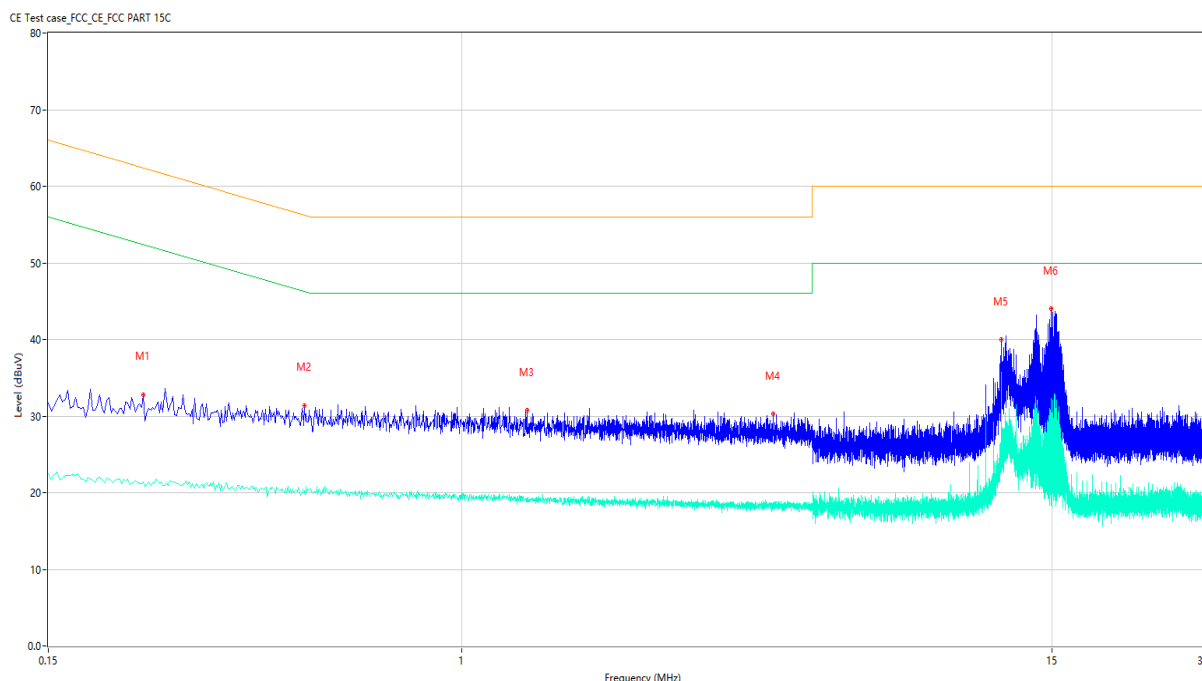
Note 1: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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

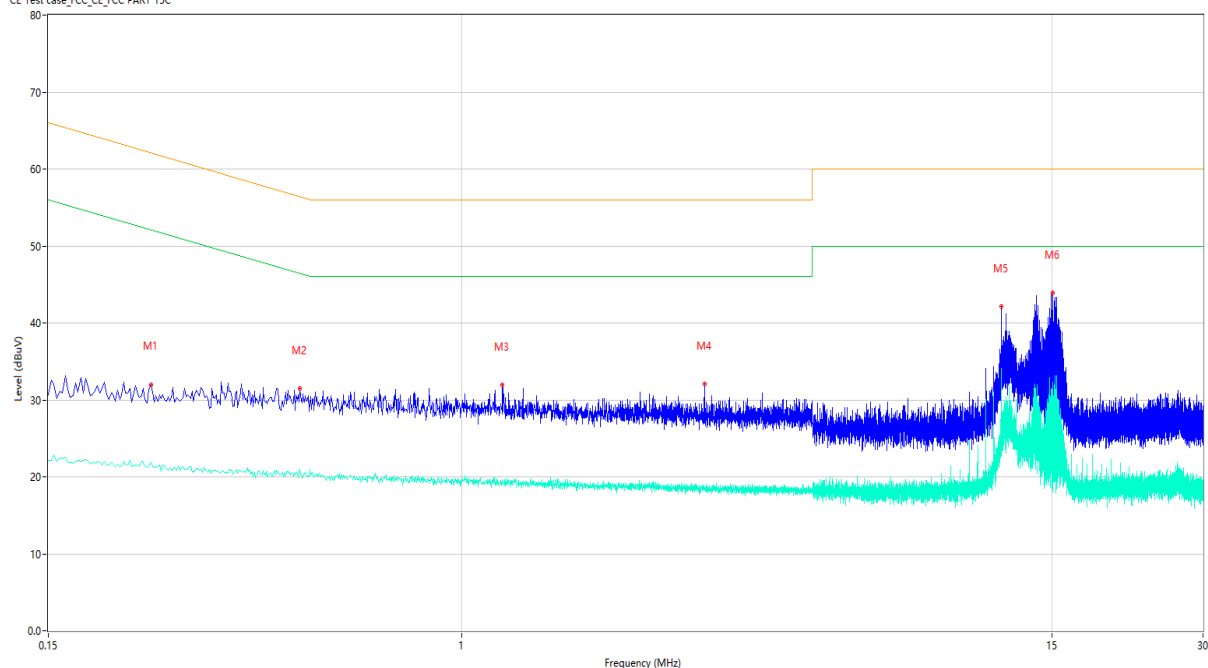
PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.232	32.82	9.77	62.38	29.56	Peak	L	Pass
1**	0.232	21.37	9.77	52.38	31.01	AV	L	Pass
2	0.486	31.39	9.77	56.24	24.85	Peak	L	Pass
2**	0.486	20.26	9.77	46.24	25.98	AV	L	Pass
3	1.348	30.76	9.74	56.00	25.24	Peak	L	Pass
3**	1.348	19.27	9.74	46.00	26.73	AV	L	Pass
4	4.176	30.24	9.61	56.00	25.76	Peak	L	Pass
4**	4.176	18.74	9.61	46.00	27.26	AV	L	Pass
5	11.896	39.97	9.07	60.00	20.03	Peak	L	Pass
5**	11.896	33.83	9.07	50.00	16.17	AV	L	Pass
6	14.938	44.07	8.93	60.00	15.93	Peak	L	Pass
6**	14.938	31.95	8.93	50.00	18.05	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	0.240	31.98	9.77	62.10	30.12	Peak	N	Pass
1**	0.240	21.94	9.77	52.10	30.16	AV	N	Pass
2	0.476	31.45	9.77	56.41	24.96	Peak	N	Pass
2**	0.476	21.01	9.77	46.41	25.40	AV	N	Pass
3	1.206	31.93	9.76	56.00	24.07	Peak	N	Pass
3**	1.206	19.62	9.76	46.00	26.38	AV	N	Pass
4	3.046	32.07	9.63	56.00	23.93	Peak	N	Pass
4**	3.046	18.56	9.63	46.00	27.44	AV	N	Pass
5	11.902	42.10	9.07	60.00	17.90	Peak	N	Pass
5**	11.902	32.72	9.07	50.00	17.28	AV	N	Pass
6	15.046	43.91	8.92	60.00	16.09	Peak	N	Pass
6**	15.046	32.28	8.92	50.00	17.72	AV	N	Pass

A.8 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 C63.10-2013, 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 EUT is working in the Normal link mode below 1 GHz. All modes have been tested and 3DH5-Middle mode is the worst.

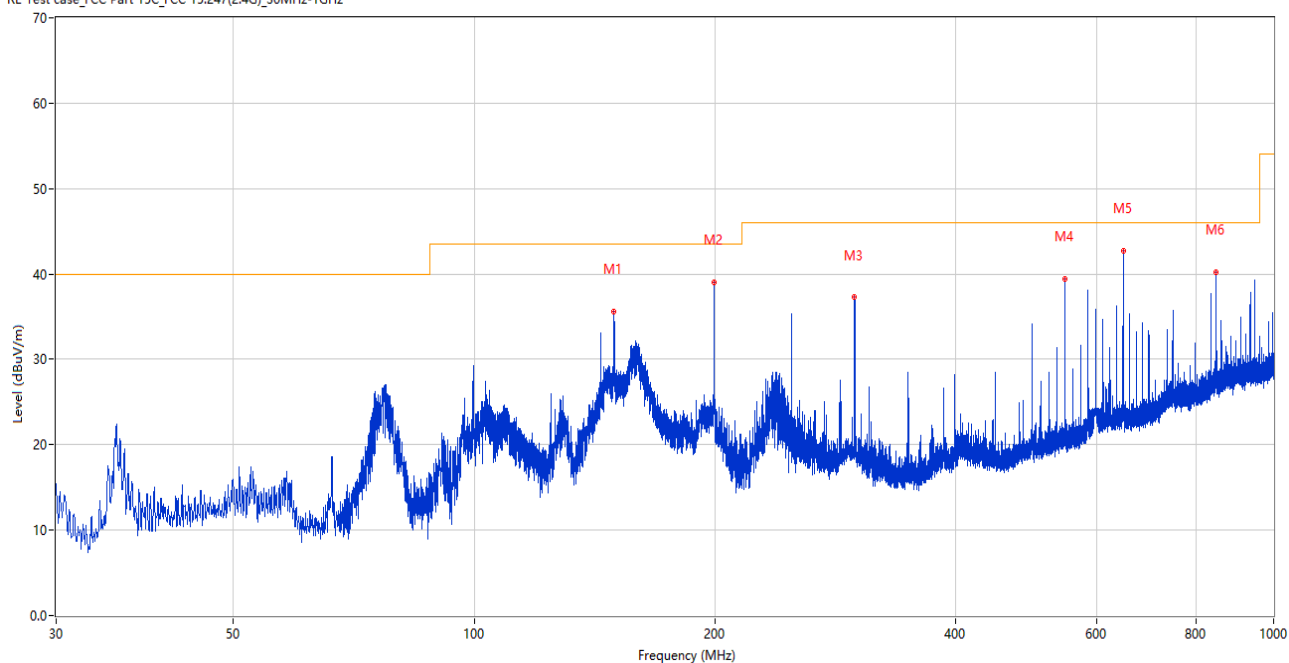
Note 4: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Note 5: 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.

Test Data and Plots

30 MHz to 1 GHz, ANT H

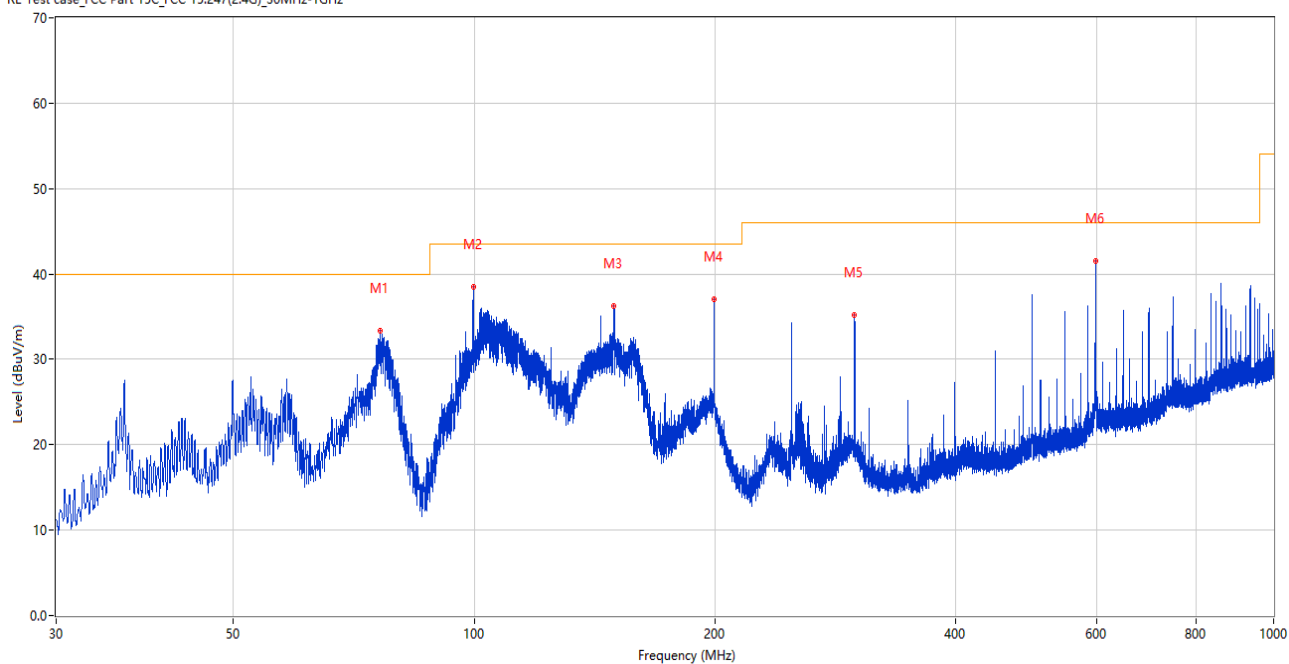
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	149.601	35.58	-29.59	43.5	7.92	Peak	215.00	200	Horizontal	Pass
2	199.459	39.03	-25.75	43.5	4.47	Peak	102.00	100	Horizontal	Pass
3	299.224	37.25	-23.21	46.0	8.75	Peak	112.00	200	Horizontal	Pass
4	548.610	39.44	-16.95	46.0	6.56	Peak	108.00	100	Horizontal	Pass
5	648.424	42.66	-14.46	46.0	3.34	Peak	114.00	100	Horizontal	Pass
6	847.758	40.18	-10.50	46.0	5.82	Peak	32.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



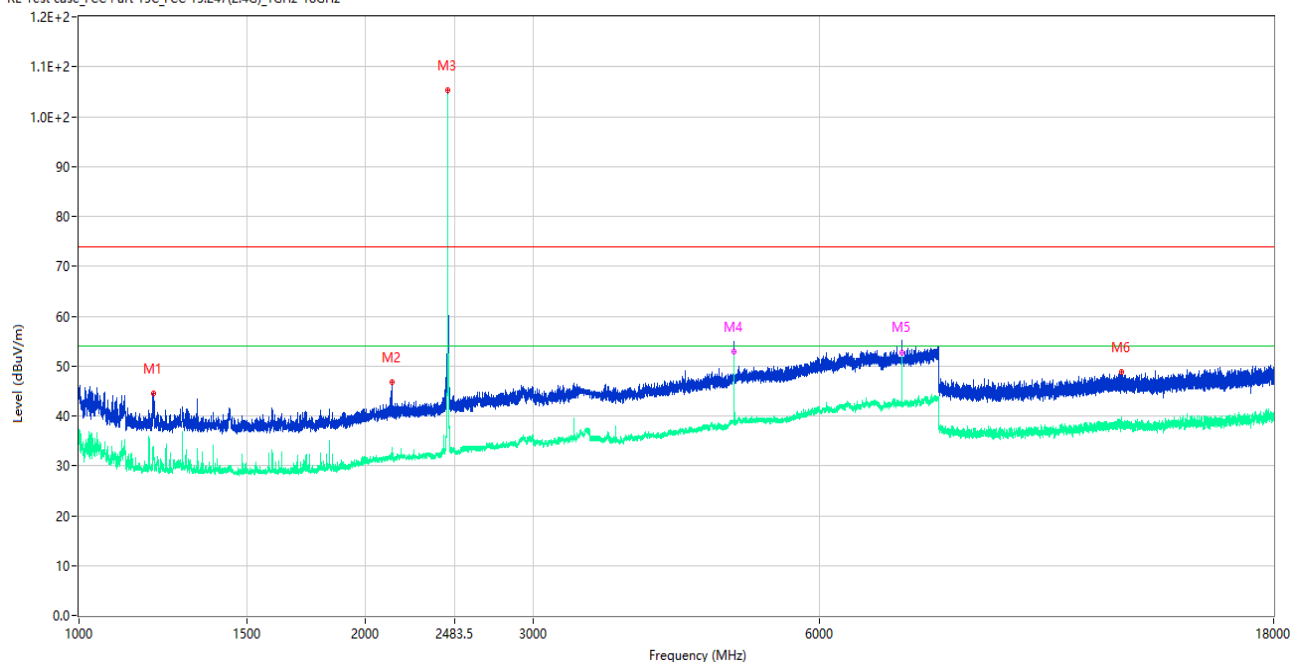
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	76.317	33.39	-30.71	40.0	6.61	Peak	111.00	100	Vertical	Pass
2	99.743	38.48	-26.12	43.5	5.02	Peak	190.00	100	Vertical	Pass
3	149.601	36.26	-29.59	43.5	7.24	Peak	99.00	100	Vertical	Pass
4	199.459	37.02	-25.75	43.5	6.48	Peak	190.00	100	Vertical	Pass
5	299.224	35.18	-23.21	46.0	10.82	Peak	152.00	200	Vertical	Pass
6	598.420	41.53	-15.01	46.0	4.47	Peak	311.00	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 MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

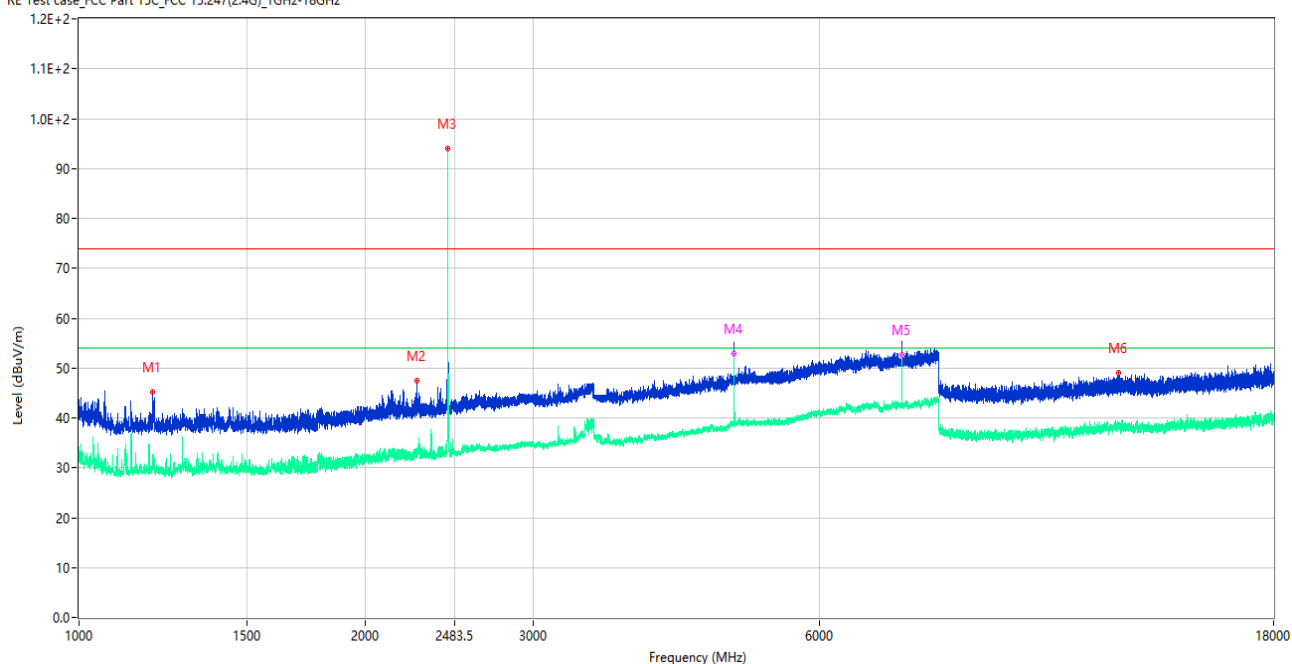
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.500	44.51	-15.72	74.0	29.49	Peak	0.00	150	Horizontal	Pass
1**	1197.500	31.99	-15.72	54.0	22.01	AV	0.00	150	Horizontal	Pass
2	2132.500	46.81	-13.37	74.0	27.19	Peak	47.00	150	Horizontal	Pass
2**	2132.500	31.68	-13.37	54.0	22.32	AV	47.00	150	Horizontal	Pass
3	2440.750	105.27	-12.38	74.0	-31.27	Peak	215.00	150	Horizontal	N/A
3**	2440.750	102.69	-12.38	54.0	-48.69	AV	215.00	150	Horizontal	N/A
4	4882.000	54.81	-2.31	74.0	19.19	Peak	235.00	150	Horizontal	Pass
4**	4882.000	52.84	-2.31	54.0	1.16	AV	235.00	150	Horizontal	Pass
5	7323.000	54.15	0.70	74.0	19.85	Peak	206.00	150	Horizontal	Pass
5**	7323.000	52.73	0.70	54.0	1.27	AV	206.00	150	Horizontal	Pass
6	12466.500	48.78	-2.34	74.0	25.22	Peak	0.00	150	Horizontal	Pass
6**	12466.500	38.09	-2.34	54.0	15.91	AV	0.00	150	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

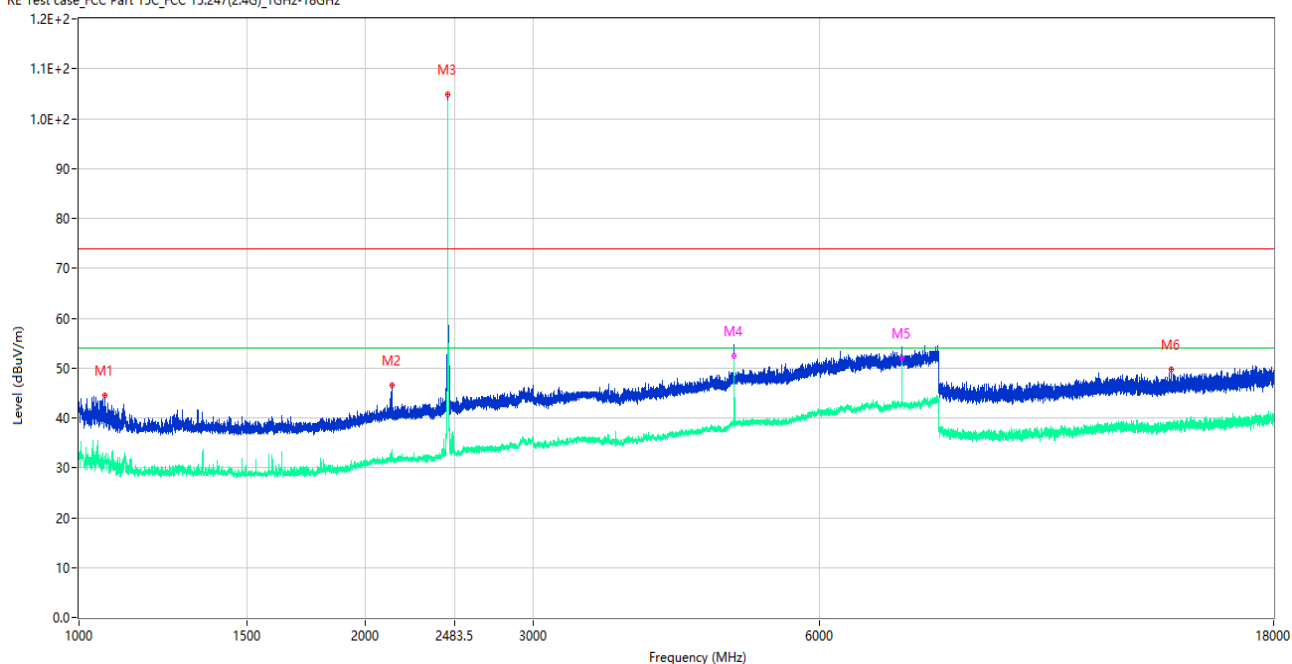
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1195.250	45.17	-15.75	74.0	28.83	Peak	126.00	150	Vertical	Pass
1**	1195.250	29.91	-15.75	54.0	24.09	AV	126.00	150	Vertical	Pass
2	2265.750	47.37	-13.22	74.0	26.63	Peak	86.00	150	Vertical	Pass
2**	2265.750	32.17	-13.22	54.0	21.83	AV	86.00	150	Vertical	Pass
3	2440.750	94.00	-12.38	74.0	-20.00	Peak	237.00	150	Vertical	N/A
3**	2440.750	92.93	-12.38	54.0	-38.93	AV	237.00	150	Vertical	N/A
4	4882.000	54.52	-2.31	74.0	19.48	Peak	249.00	150	Vertical	Pass
4**	4882.000	52.78	-2.31	54.0	1.22	AV	249.00	150	Vertical	Pass
5	7323.000	53.98	0.70	74.0	20.02	Peak	230.00	150	Vertical	Pass
5**	7323.000	52.59	0.70	54.0	1.41	AV	230.00	150	Vertical	Pass
6	12370.500	48.95	-2.13	74.0	25.05	Peak	92.00	150	Vertical	Pass
6**	12370.500	38.89	-2.13	54.0	15.11	AV	92.00	150	Vertical	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

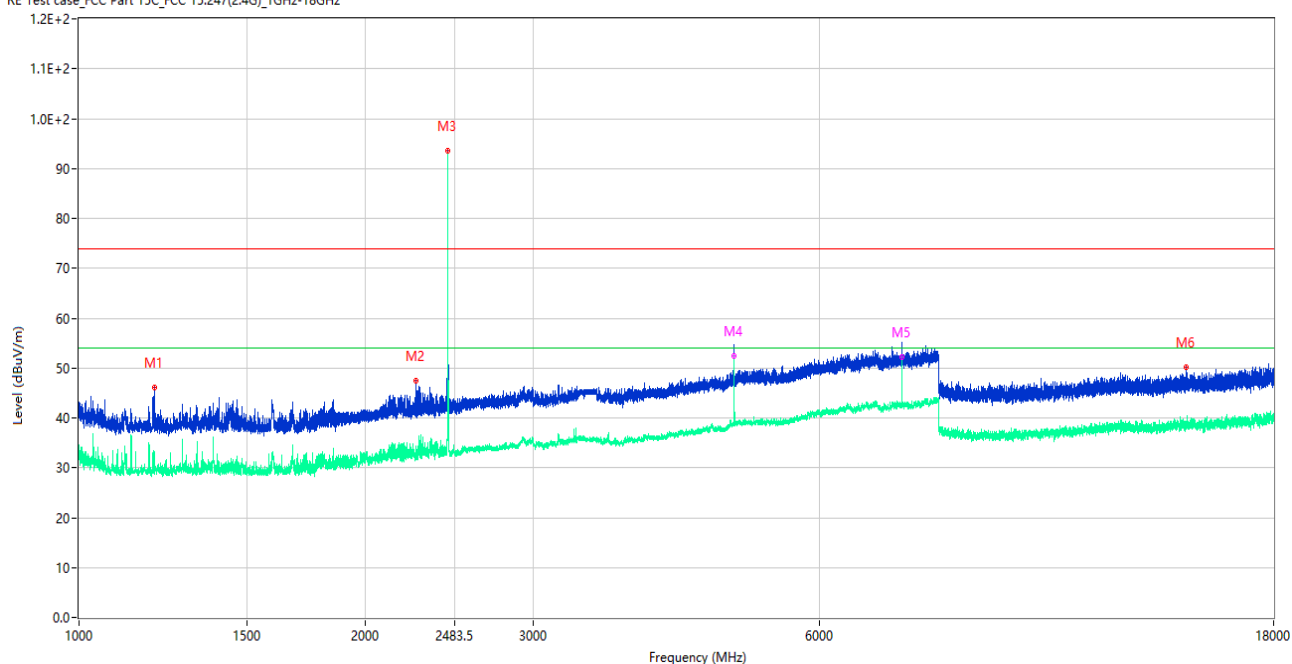
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.500	44.58	-15.23	74.0	29.42	Peak	86.00	150	Horizontal	Pass
1**	1063.500	31.52	-15.23	54.0	22.48	AV	86.00	150	Horizontal	Pass
2	2133.250	46.64	-13.38	74.0	27.36	Peak	300.00	150	Horizontal	Pass
2**	2133.250	31.51	-13.38	54.0	22.49	AV	300.00	150	Horizontal	Pass
3	2441.250	104.94	-12.40	74.0	-30.94	Peak	209.00	150	Horizontal	N/A
3**	2441.250	102.82	-12.40	54.0	-48.82	AV	209.00	150	Horizontal	N/A
4	4882.000	54.73	-2.31	74.0	19.27	Peak	231.00	150	Horizontal	Pass
4**	4882.000	52.54	-2.31	54.0	1.46	AV	231.00	150	Horizontal	Pass
5	7323.000	53.15	0.70	74.0	20.85	Peak	210.00	150	Horizontal	Pass
5**	7323.000	52.01	0.70	54.0	1.99	AV	210.00	150	Horizontal	Pass
6	14057.000	49.78	-1.83	74.0	24.22	Peak	322.00	150	Horizontal	Pass
6**	14057.000	38.34	-1.83	54.0	15.66	AV	322.00	150	Horizontal	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1199.750	46.08	-15.75	74.0	27.92	Peak	125.00	150	Vertical	Pass
1**	1199.750	30.95	-15.75	54.0	23.05	AV	125.00	150	Vertical	Pass
2	2257.000	47.39	-13.16	74.0	26.61	Peak	81.00	150	Vertical	Pass
2**	2257.000	31.87	-13.16	54.0	22.13	AV	81.00	150	Vertical	Pass
3	2440.750	93.58	-12.38	74.0	-19.58	Peak	236.00	150	Vertical	N/A
3**	2440.750	92.52	-12.38	54.0	-38.52	AV	236.00	150	Vertical	N/A
4	4882.000	54.25	-2.31	74.0	19.75	Peak	237.00	150	Vertical	Pass
4**	4882.000	52.41	-2.31	54.0	1.59	AV	237.00	150	Vertical	Pass
5	7323.000	53.06	0.70	74.0	20.94	Peak	209.00	150	Vertical	Pass
5**	7323.000	52.25	0.70	54.0	1.75	AV	209.00	150	Vertical	Pass
6	14565.000	50.15	-3.04	74.0	23.85	Peak	0.00	150	Vertical	Pass
6**	14565.000	38.56	-3.04	54.0	15.44	AV	0.00	150	Vertical	Pass

A.9 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 C63.10-2013, 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.

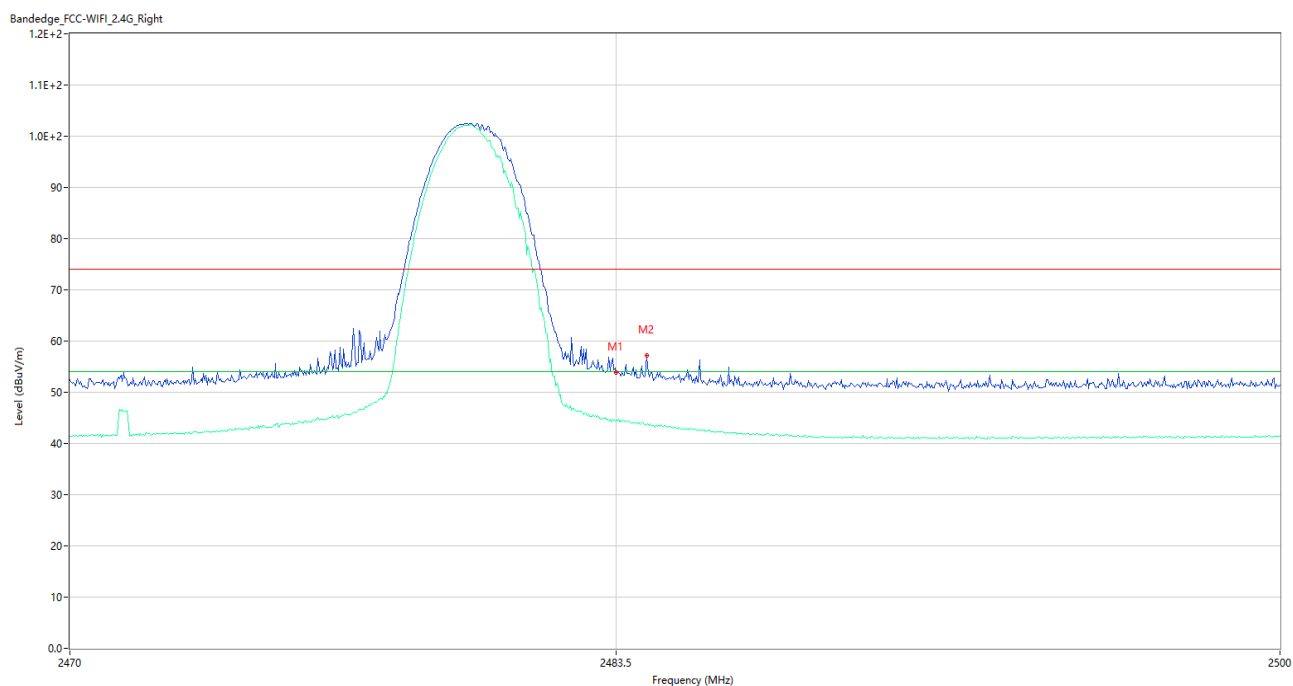
Test Data and Plots

GFSK LOW CHANNEL



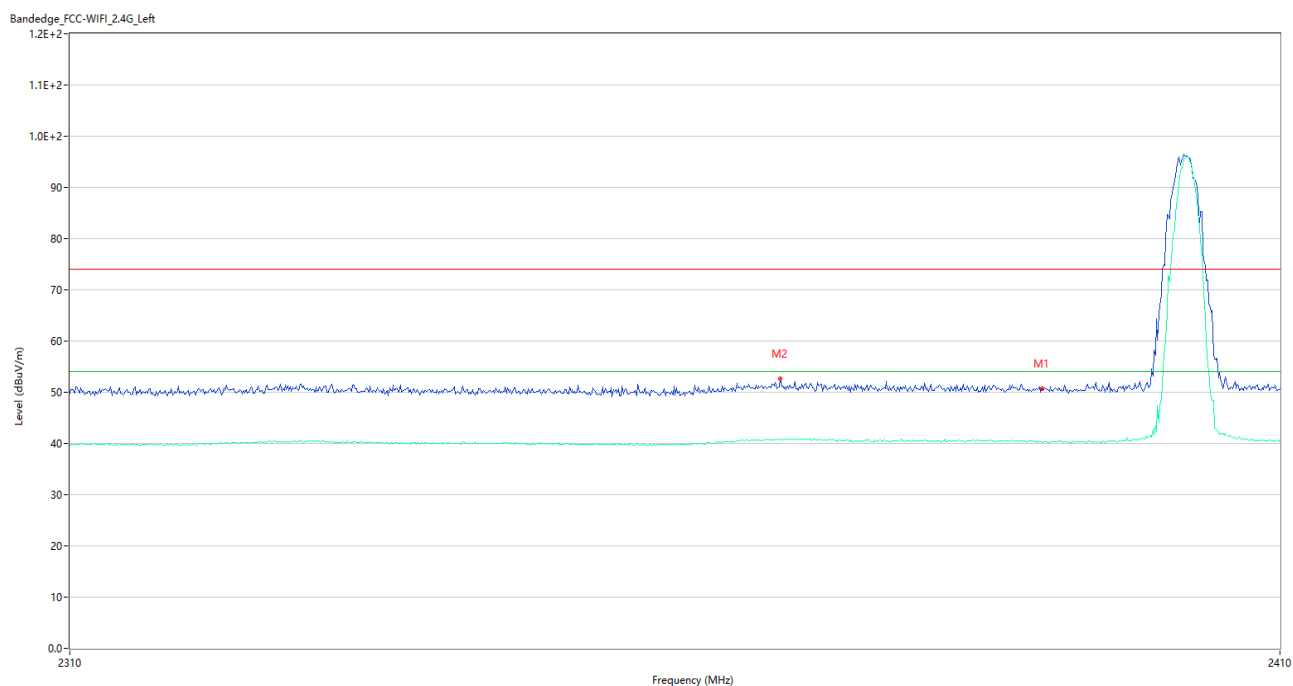
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	50.57	-4.87	74.0	23.43	Peak	187.00	150	Horizontal	Pass
1**	2390.000	40.51	-4.87	54.0	13.49	AV	187.00	150	Horizontal	Pass
2	2369.800	51.71	-4.02	74.0	22.29	Peak	137.00	150	Horizontal	Pass
2**	2369.800	40.80	-4.02	54.0	13.20	AV	137.00	150	Horizontal	Pass

GFSK HIGH CHANNEL



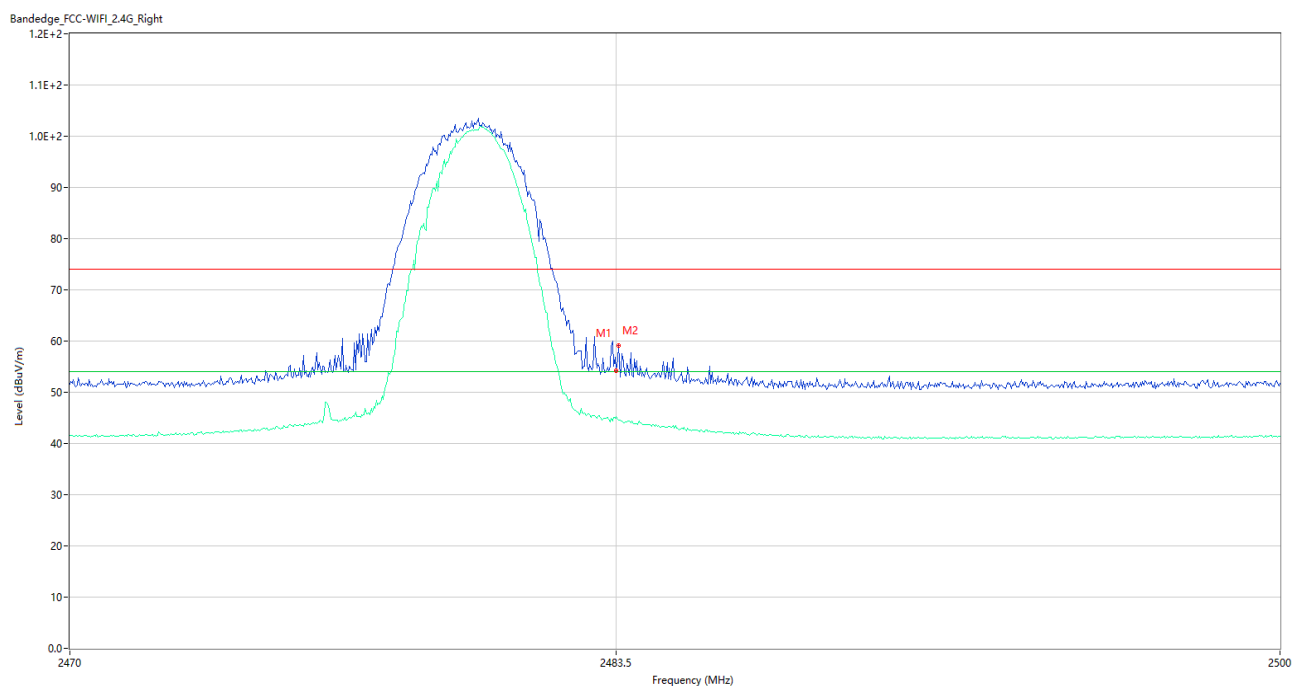
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	53.89	-3.78	74.0	20.11	Peak	358.00	150	Horizontal	Pass
1**	2483.500	44.50	-3.78	54.0	9.50	AV	358.00	150	Horizontal	Pass
2	2484.250	57.23	-3.78	74.0	16.77	Peak	356.00	150	Horizontal	Pass
2**	2484.250	43.69	-3.78	54.0	10.31	AV	356.00	150	Horizontal	Pass

8-DPSK LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	50.75	-4.87	74.0	23.25	Peak	47.00	150	Vertical	Pass
1**	2390.000	40.25	-4.87	54.0	13.75	AV	47.00	150	Vertical	Pass
2	2368.200	52.63	-4.20	74.0	21.37	Peak	115.00	150	Vertical	Pass
2**	2368.200	40.62	-4.20	54.0	13.38	AV	115.00	150	Vertical	Pass

8-DPSK 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	54.21	-3.78	74.0	19.79	Peak	28.00	150	Horizontal	Pass
1**	2483.500	45.33	-3.78	54.0	8.67	AV	28.00	150	Horizontal	Pass
2	2483.560	59.15	-3.78	74.0	14.85	Peak	15.00	150	Horizontal	Pass
2**	2483.560	44.61	-3.78	54.0	9.39	AV	15.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2530661-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2530661-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2530661-AI.PDF”.

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--END OF REPORT--