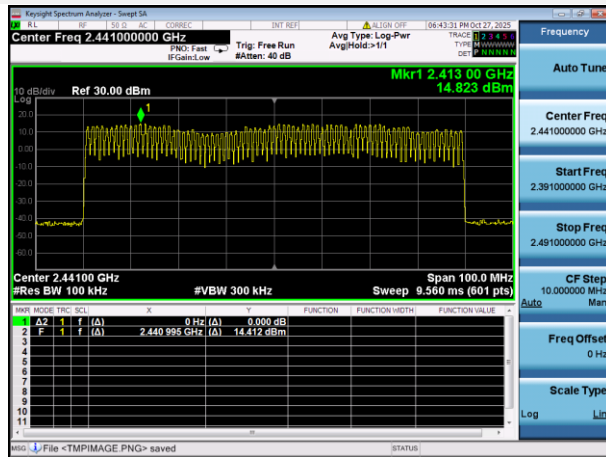
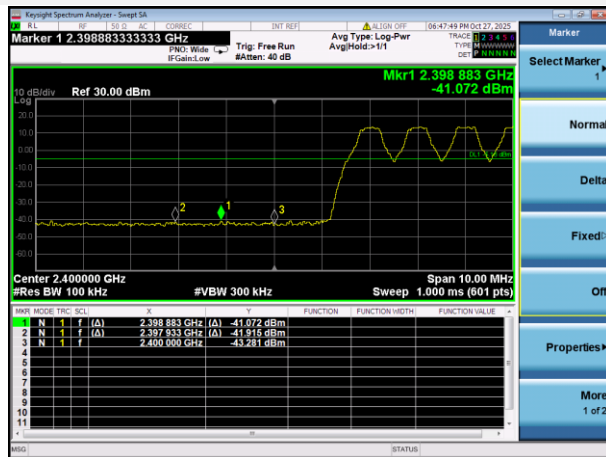


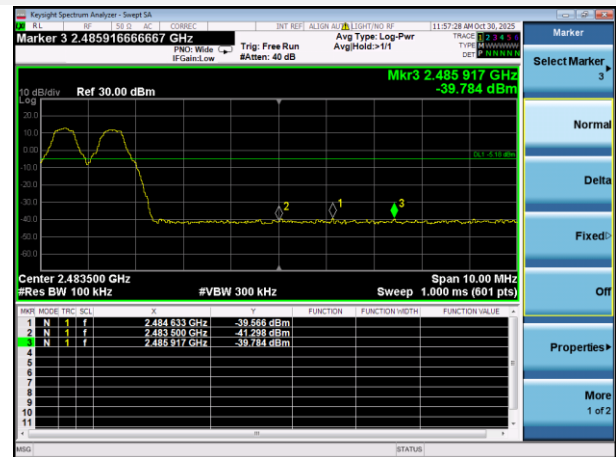
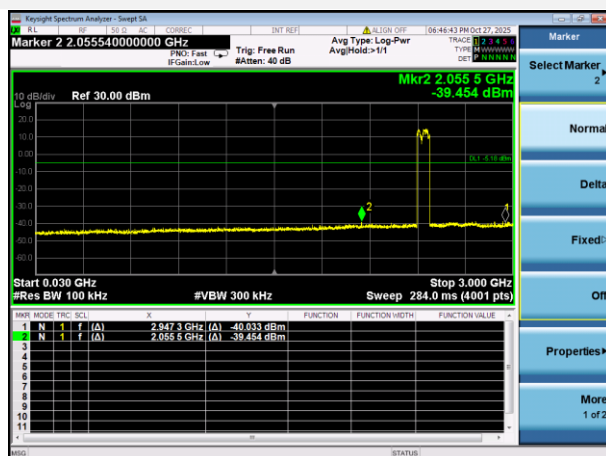
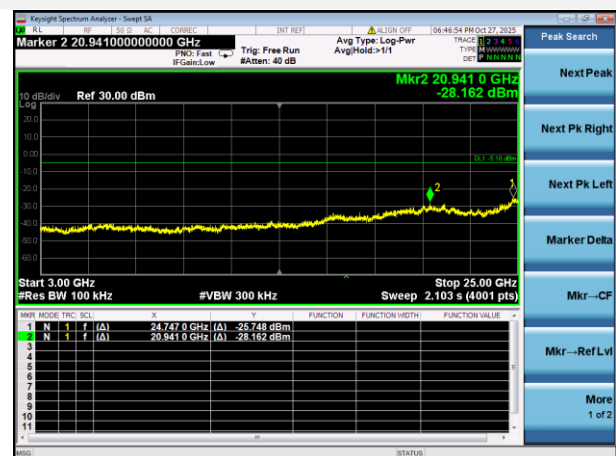
GFSK HOPPING, CARRIER LEVEL



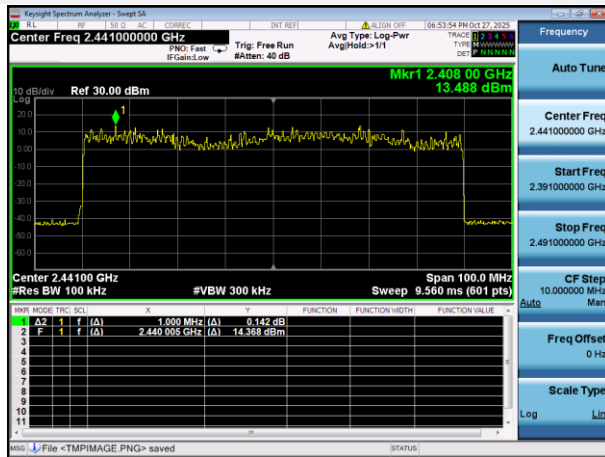
GFSK HOPPING BAND EDGE (LOW)



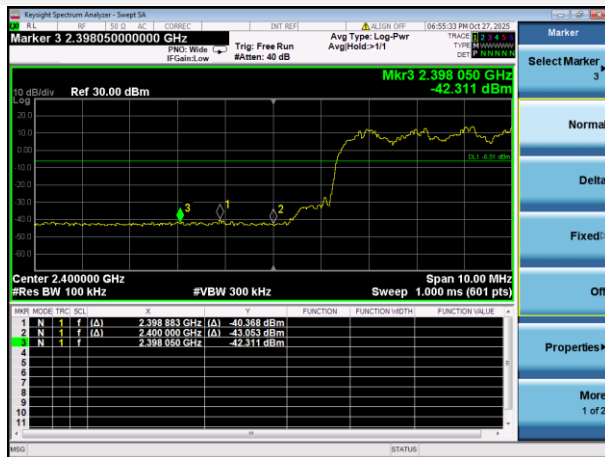
GFSK HOPPING BAND EDGE (HIGH)

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

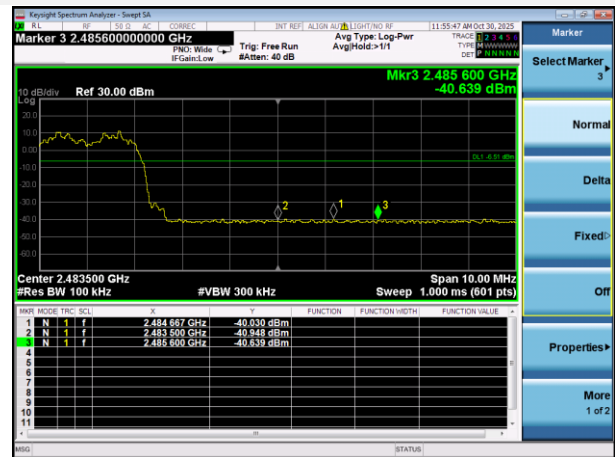
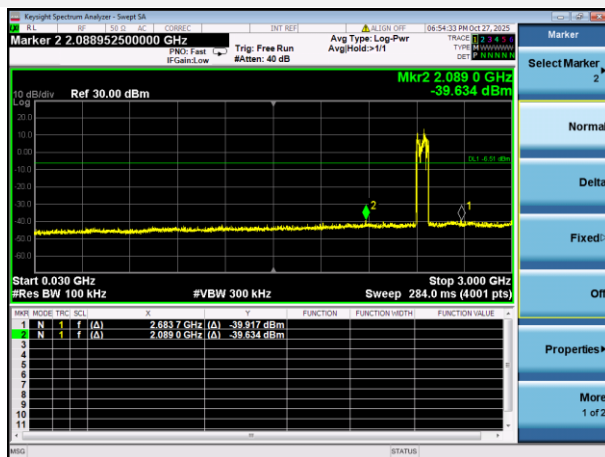
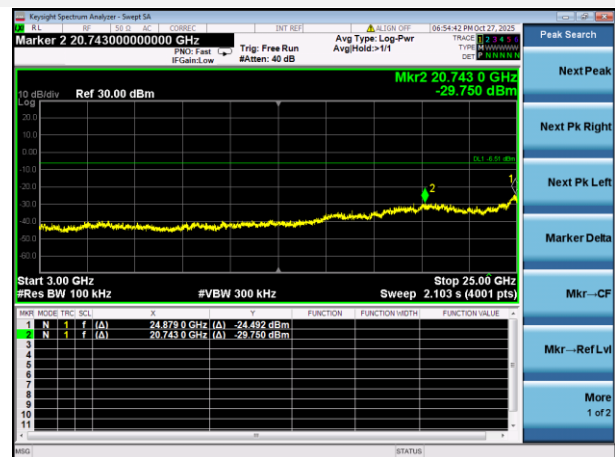
8-DPSK HOPPING, CARRIER LEVEL



8-DPSK Hopping BAND EDGE (LOW)

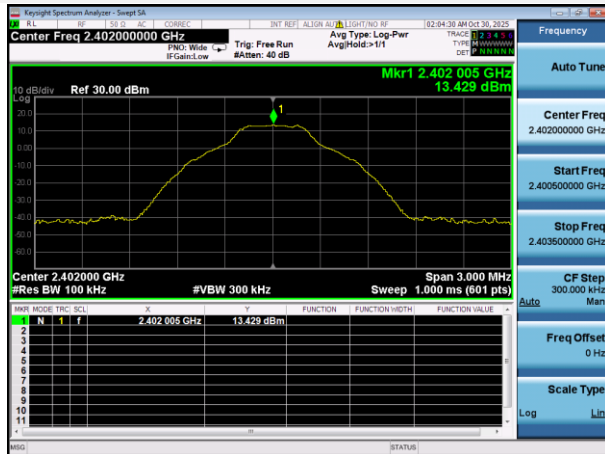


8-DPSK Hopping BAND EDGE (HIGH)

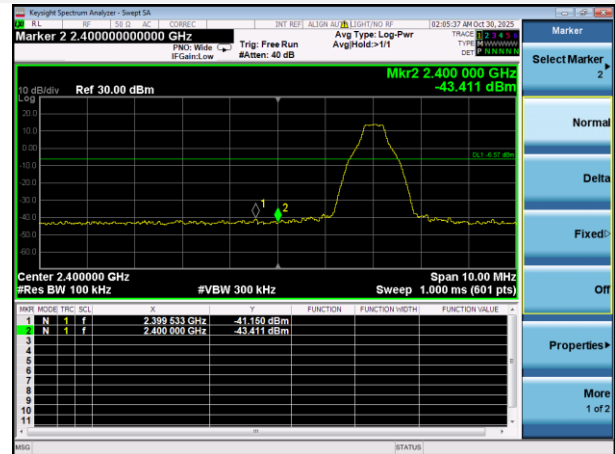
8-DPSK Hopping Mode, SPURIOUS
30 MHz ~ 3 GHz8-DPSK Hopping Mode, SPURIOUS
3GHz ~ 25 GHz

Aux. Antenna

GFSK LOW CHANNEL, CARRIER LEVEL

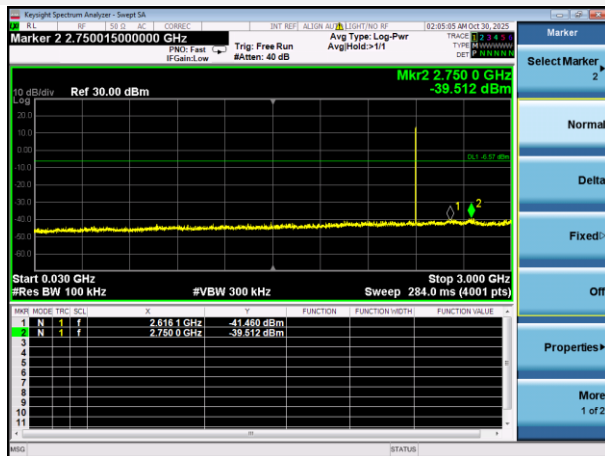


GFSK LOW CHANNEL, BAND EDGE



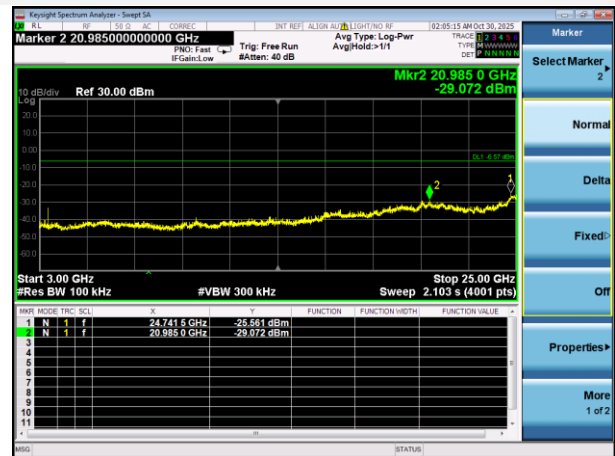
GFSK LOW CHANNEL, SPURIOUS

30 MHz ~ 3 GHz

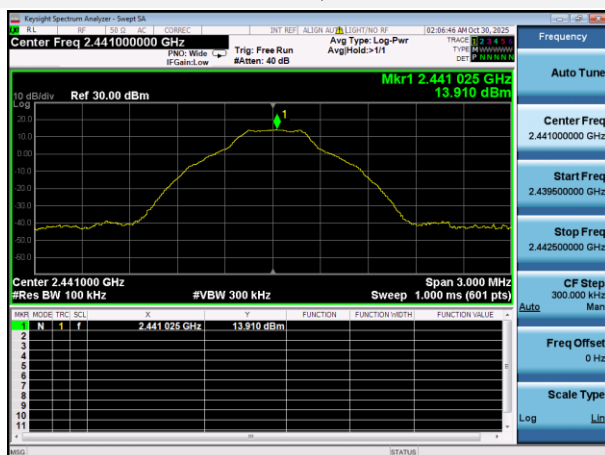


GFSK LOW CHANNEL, SPURIOUS

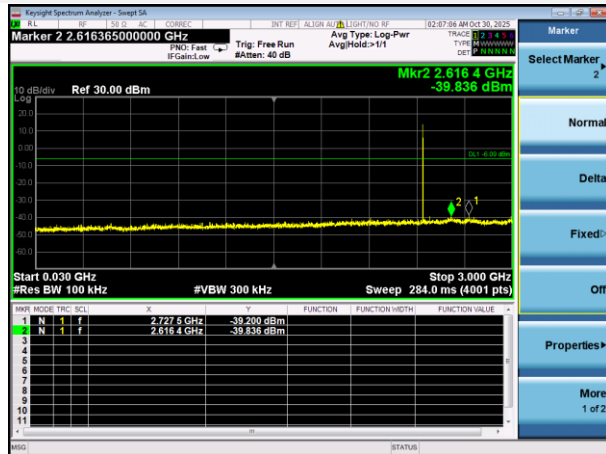
3 GHz ~ 25 GHz



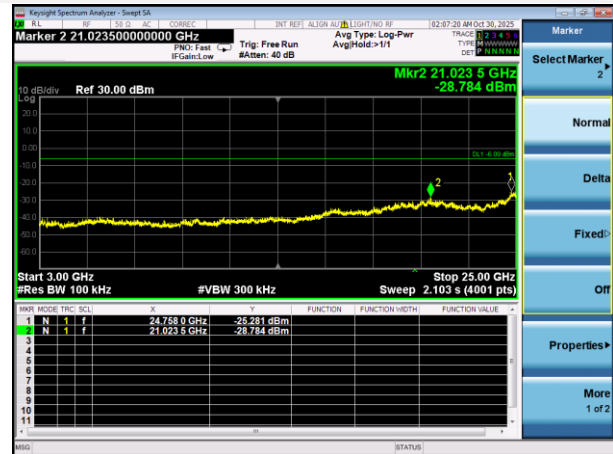
GFSK MIDDLE CHANNEL, CARRIER LEVEL



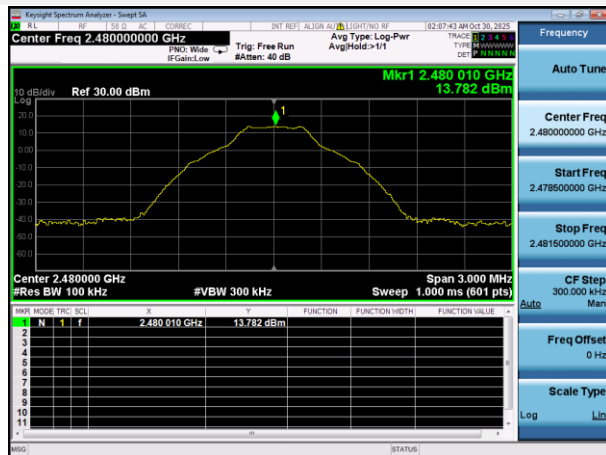
GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



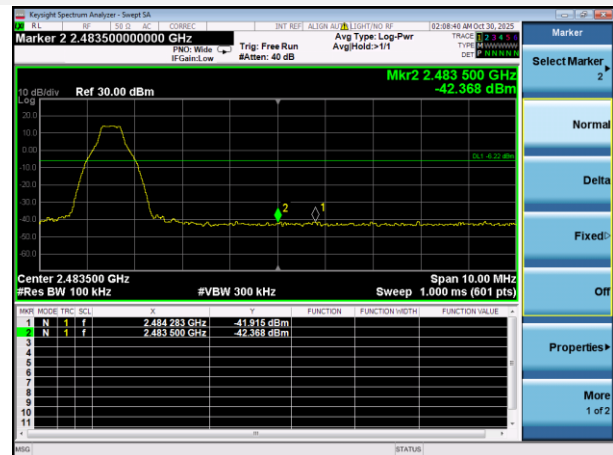
GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



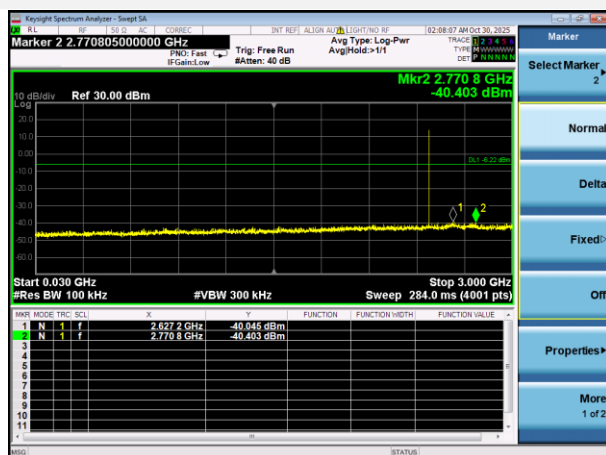
GFSK HIGH CHANNEL, CARRIER LEVEL



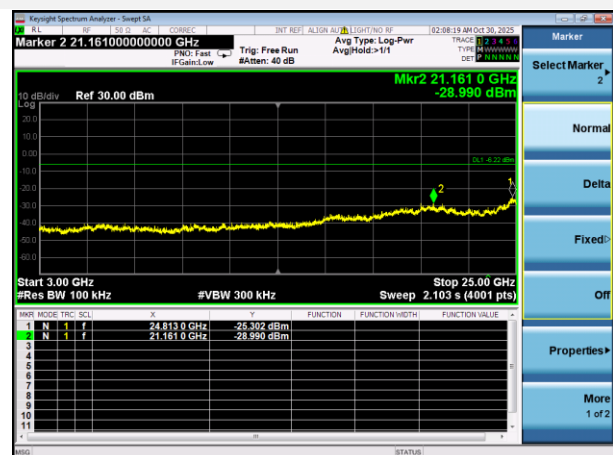
GFSK HIGH CHANNEL, BAND EDGE



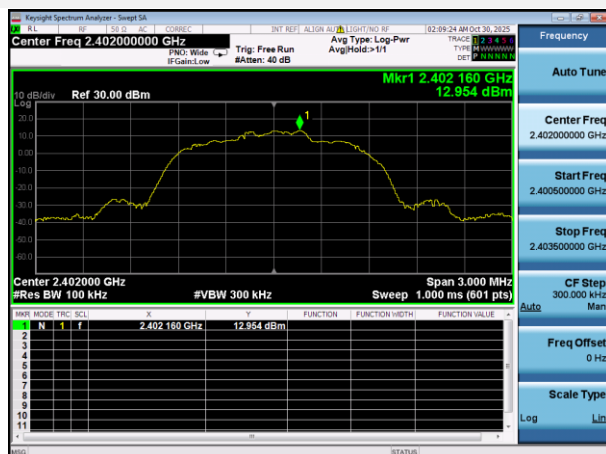
GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



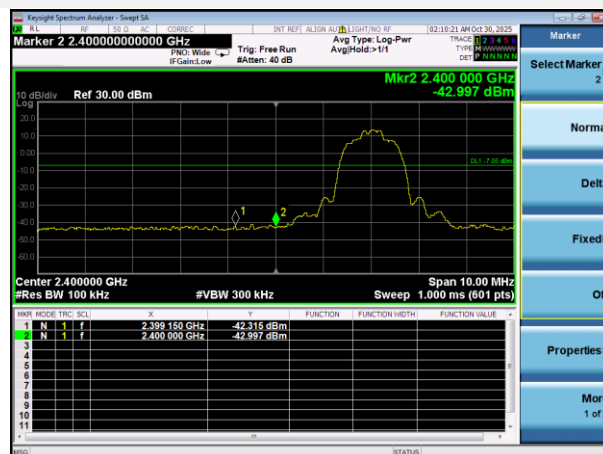
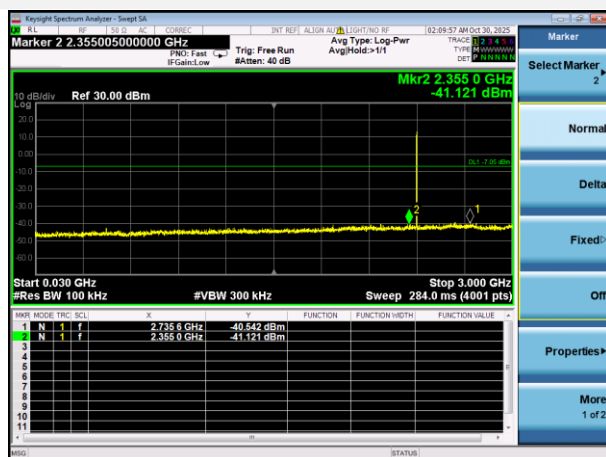
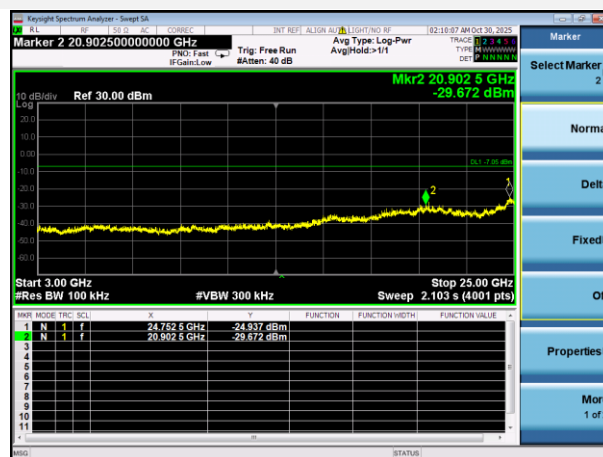
GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



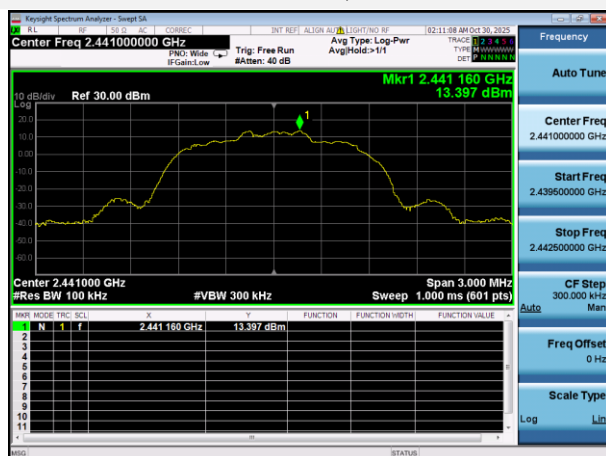
8-DPSK LOW CHANNEL, CARRIER LEVEL



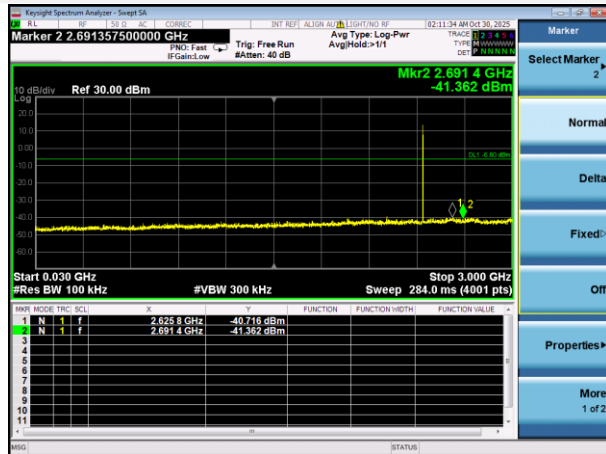
8-DPSK LOW CHANNEL, BAND EDGE

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

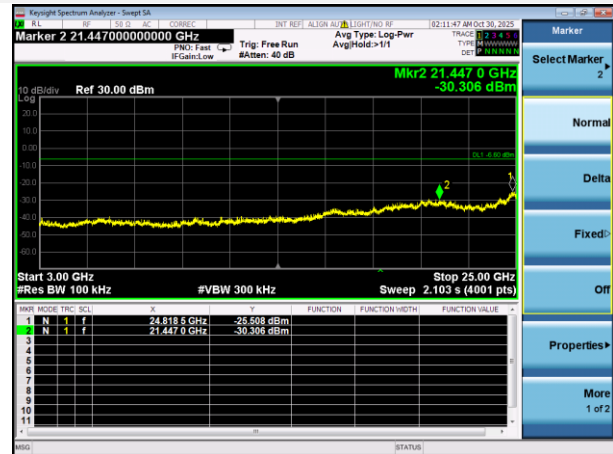
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



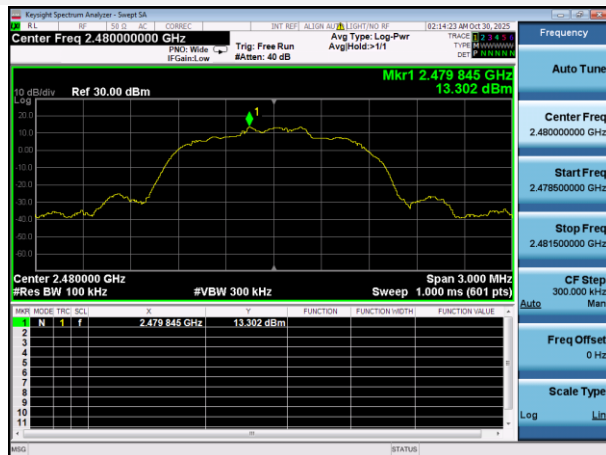
8-DPSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



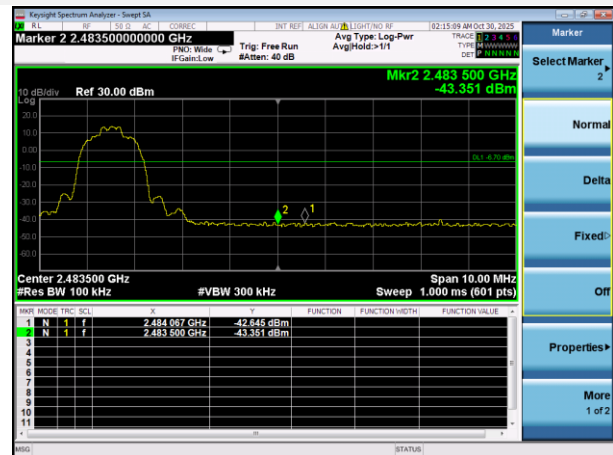
8-DPSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



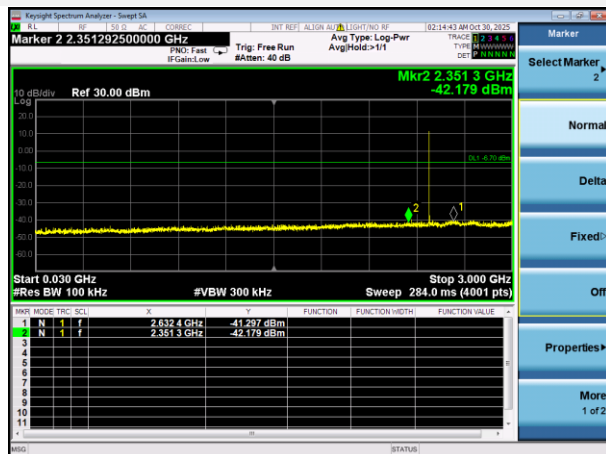
8-DPSK HIGH CHANNEL, CARRIER LEVEL



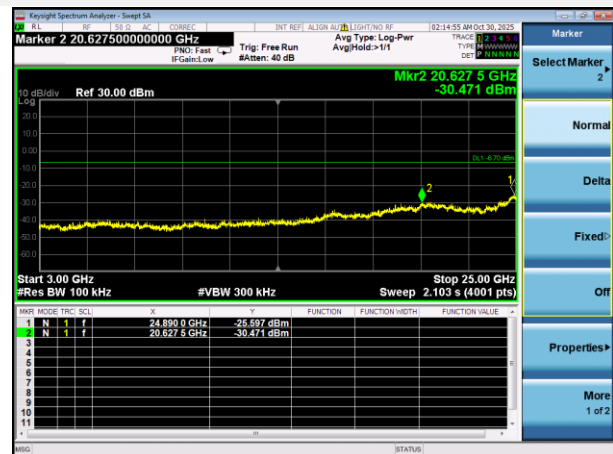
8-DPSK HIGH CHANNEL, BAND EDGE



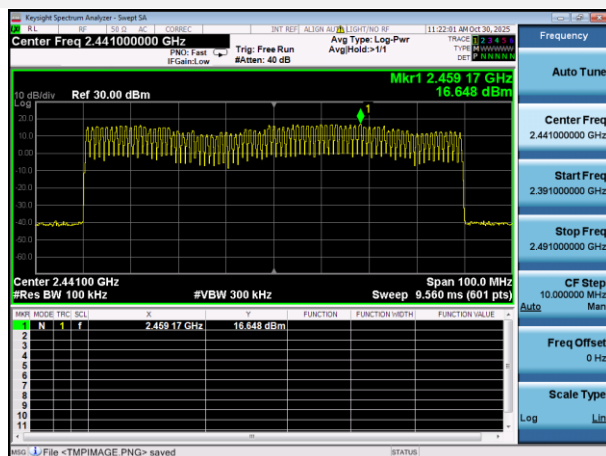
8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



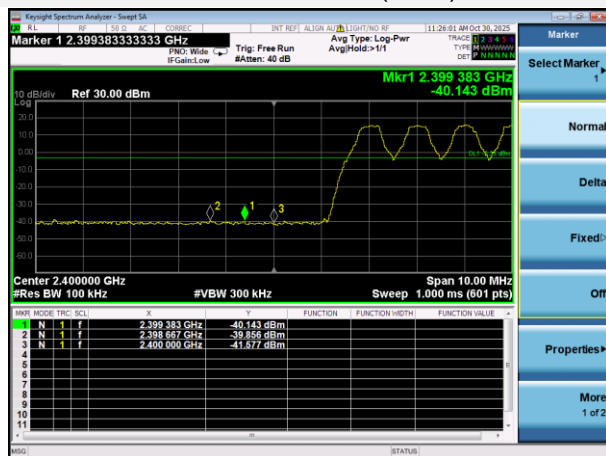
8-DPSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



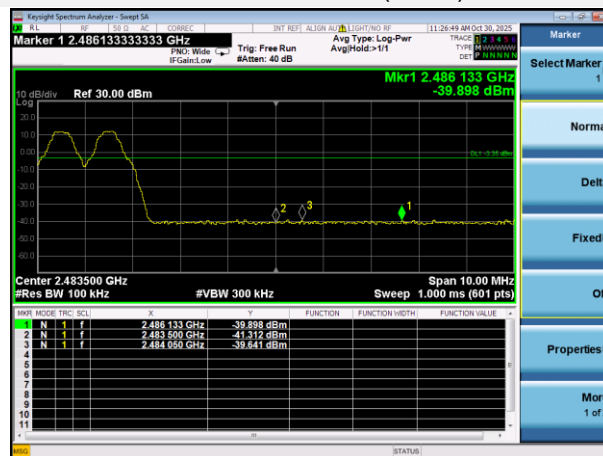
GFSK HOPPING, CARRIER LEVEL



GFSK HOPPING BAND EDGE (LOW)

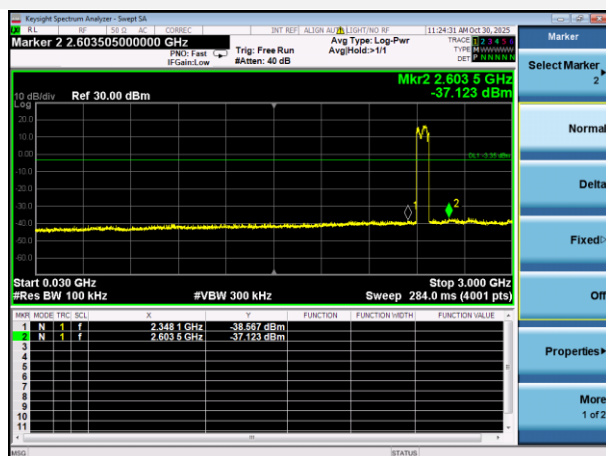


GFSK HOPPING BAND EDGE (HIGH)



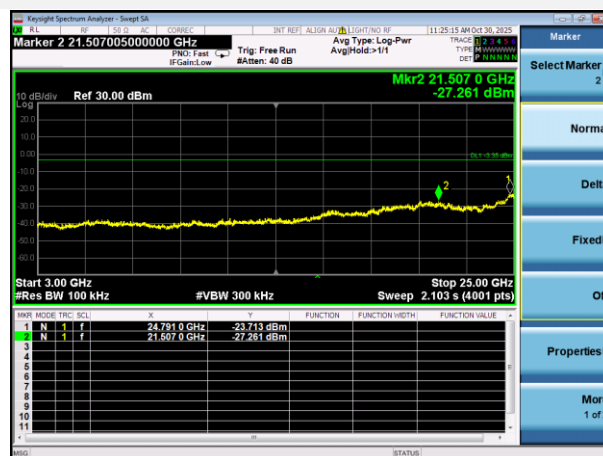
GFSK Hopping Mode, SPURIOUS

30 MHz ~ 3 GHz

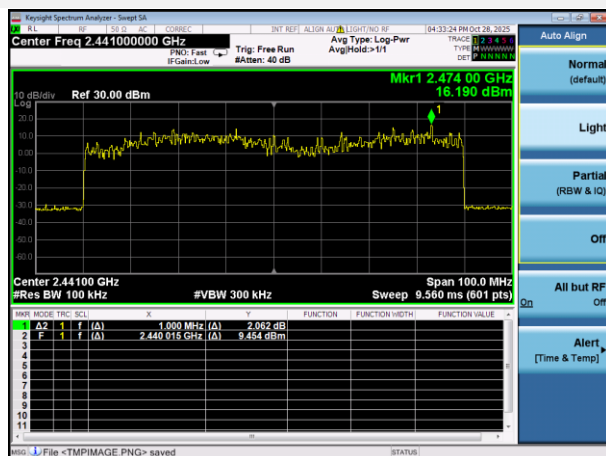


GFSK Hopping Mode, SPURIOUS

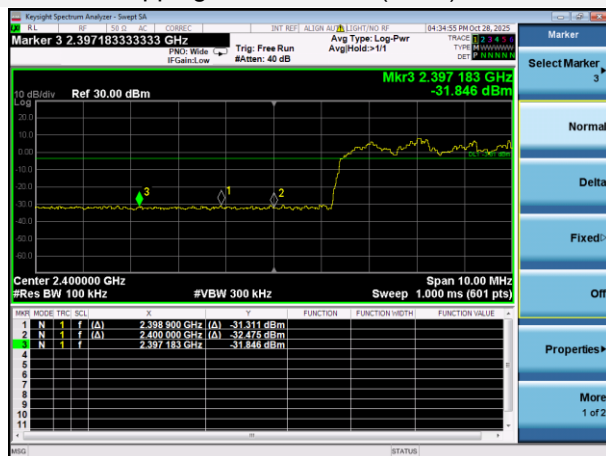
3GHz ~ 25 GHz



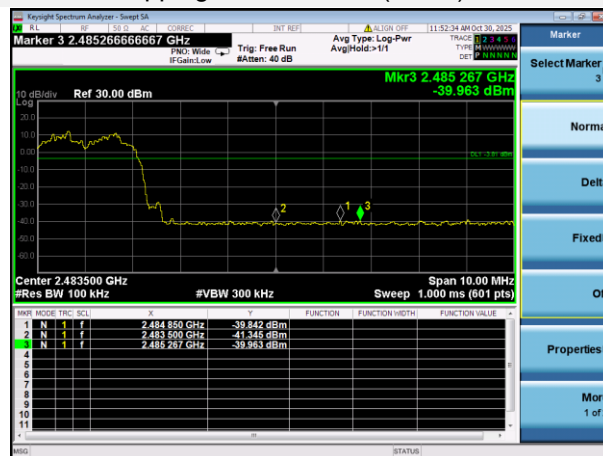
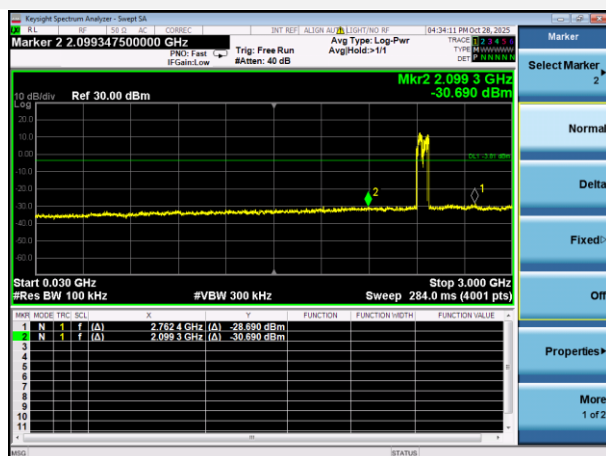
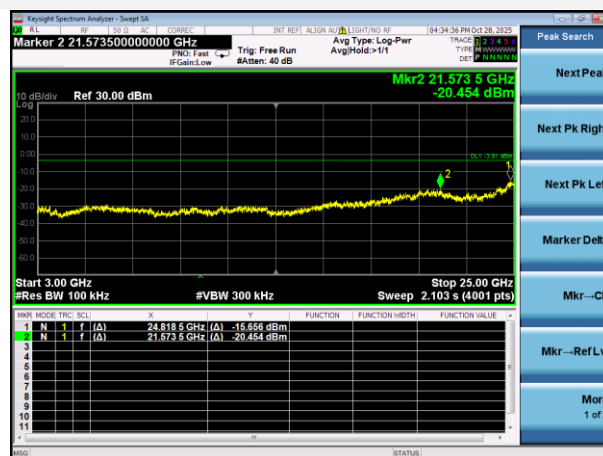
8-DPSK HOPPING, CARRIER LEVEL



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

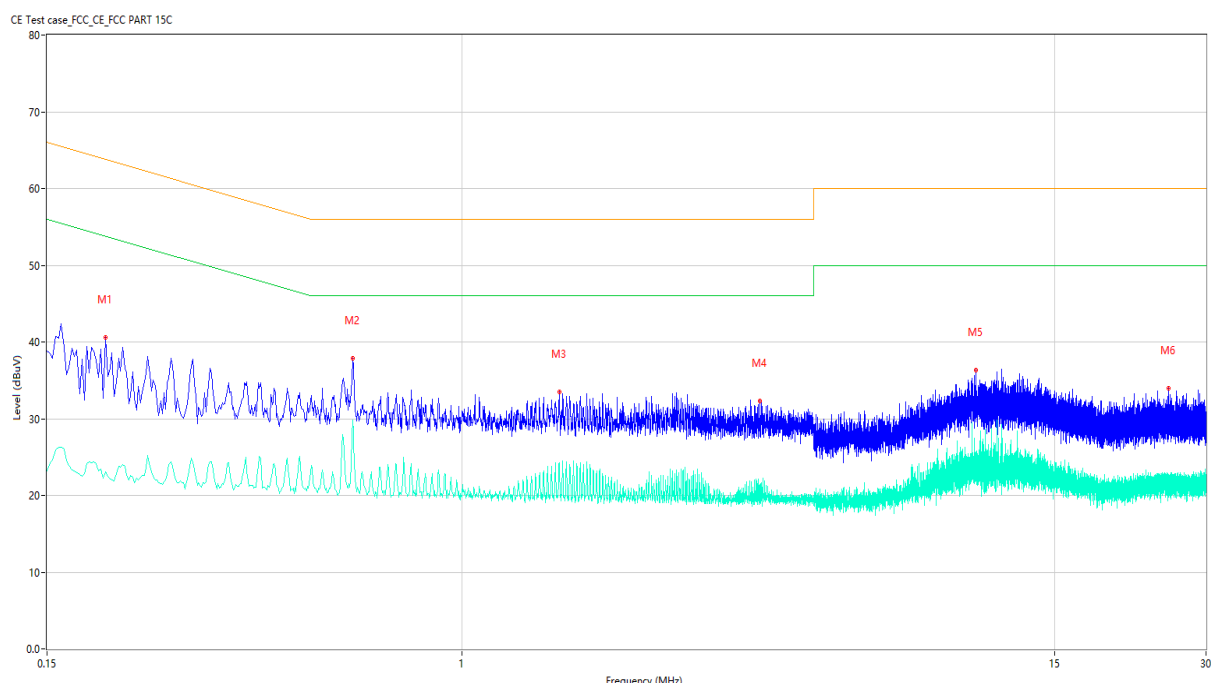
Note 1: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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

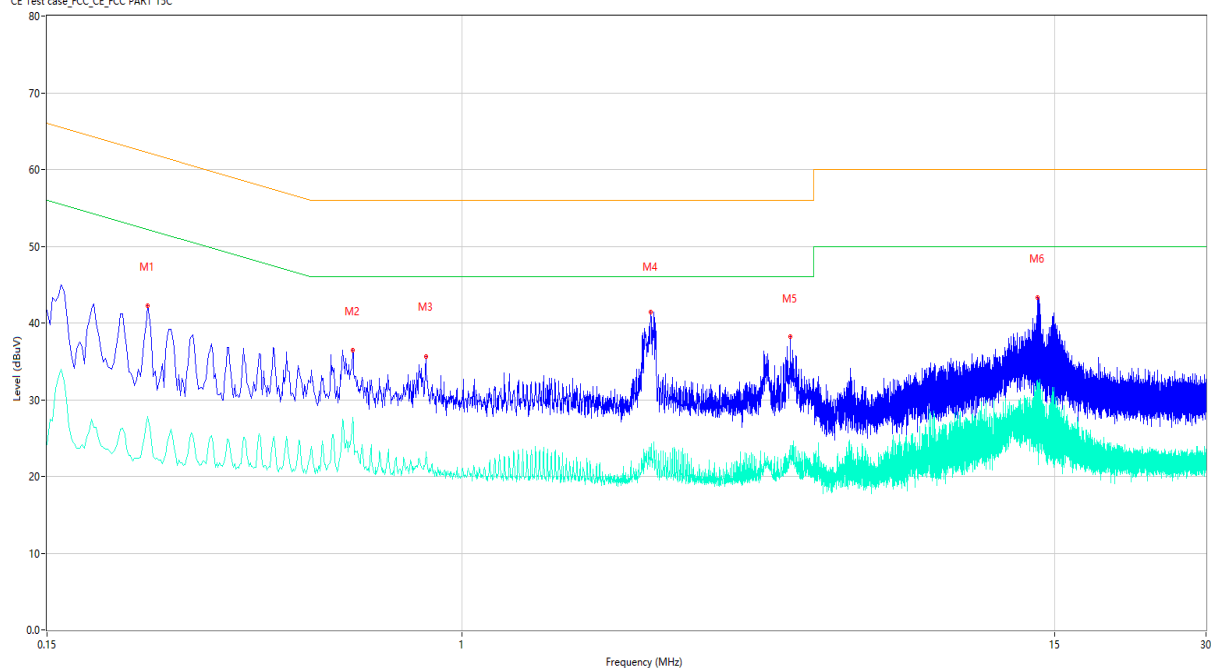
PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.196	40.57	10.11	63.78	23.21	Peak	L	Pass
1**	0.196	23.08	10.11	53.78	30.70	AV	L	Pass
2	0.606	37.84	10.19	56.00	18.16	Peak	L	Pass
2**	0.606	29.80	10.19	46.00	16.20	AV	L	Pass
3	1.560	33.50	10.28	56.00	22.50	Peak	L	Pass
3**	1.560	24.25	10.28	46.00	21.75	AV	L	Pass
4	3.906	32.25	10.42	56.00	23.75	Peak	L	Pass
4**	3.906	21.11	10.42	46.00	24.89	AV	L	Pass
5	10.472	36.31	10.96	60.00	23.69	Peak	L	Pass
5**	10.472	24.65	10.96	50.00	25.35	AV	L	Pass
6	25.238	33.98	11.71	60.00	26.02	Peak	L	Pass
6**	25.238	22.43	11.71	50.00	27.57	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	0.238	42.30	10.15	62.17	19.87	Peak	N	Pass
1**	0.238	27.82	10.15	52.17	24.35	AV	N	Pass
2	0.606	36.49	10.20	56.00	19.51	Peak	N	Pass
2**	0.606	27.64	10.20	46.00	18.36	AV	N	Pass
3	0.848	35.63	10.23	56.00	20.37	Peak	N	Pass
3**	0.848	22.50	10.23	46.00	23.50	AV	N	Pass
4	2.370	41.44	10.27	56.00	14.56	Peak	N	Pass
4**	2.370	23.34	10.27	46.00	22.66	AV	N	Pass
5	4.484	38.28	10.41	56.00	17.72	Peak	N	Pass
5**	4.484	23.41	10.41	46.00	22.59	AV	N	Pass
6	13.884	43.37	11.09	60.00	16.63	Peak	N	Pass
6**	13.884	29.14	11.09	50.00	20.86	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 C63.10-2020, 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 EUT is working in the Normal link mode below 1 GHz. All modes have been tested.

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

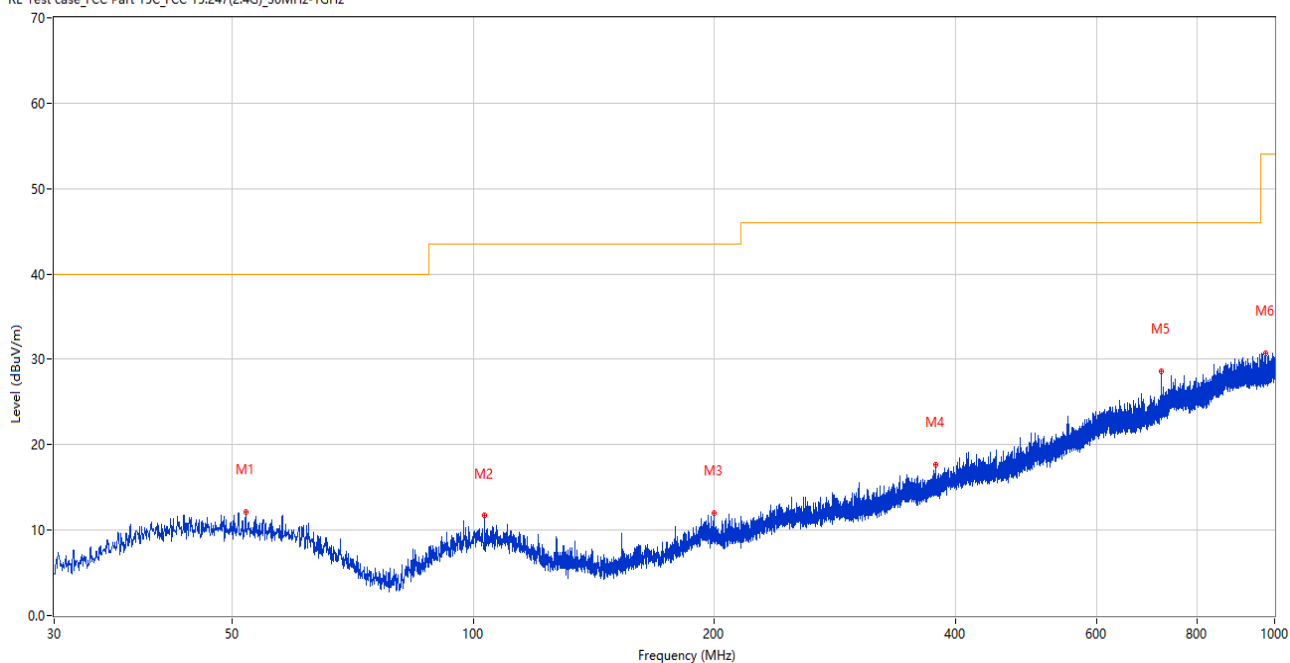
Note 5: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note 6: All antenna were tested, but only the worst case has been reported in this report.

Test Data and Plots

30 MHz to 1 GHz, ANT H

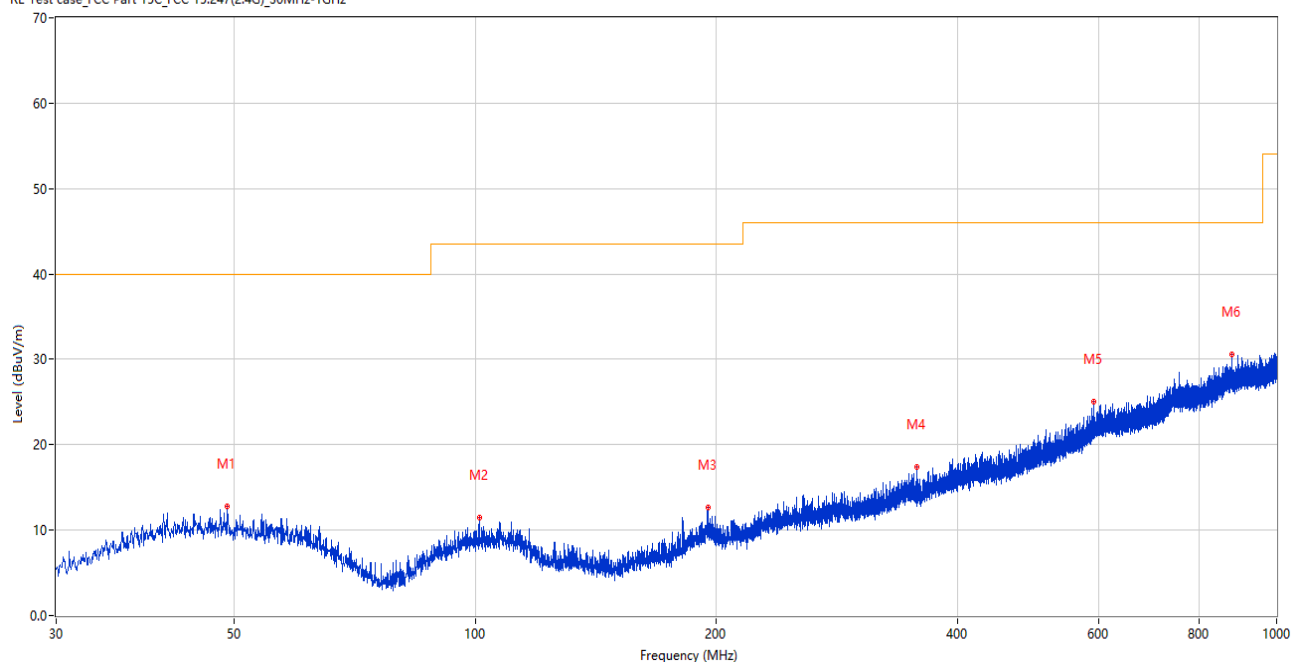
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.068	12.09	-24.70	40.0	27.91	Peak	360.00	200	Horizontal	Pass
2	103.332	11.67	-26.10	43.5	31.83	Peak	288.00	200	Horizontal	Pass
3	199.944	12.05	-25.75	43.5	31.45	Peak	164.00	200	Horizontal	Pass
4	377.697	17.63	-21.03	46.0	28.37	Peak	284.00	100	Horizontal	Pass
5	721.756	28.56	-13.13	46.0	17.44	Peak	25.00	200	Horizontal	Pass
6	974.634	30.74	-8.55	54.0	23.26	Peak	65.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



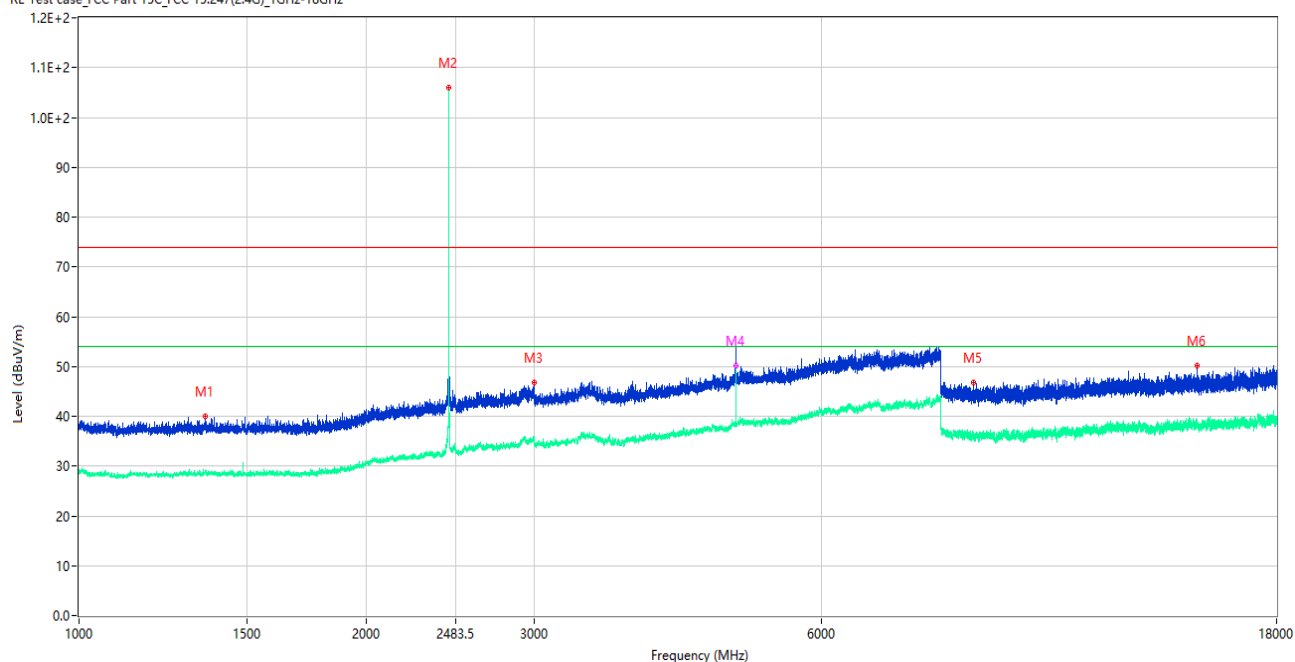
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	49.060	12.77	-24.50	40.0	27.23	Peak	237.00	100	Vertical	Pass
2	101.198	11.46	-26.10	43.5	32.04	Peak	237.00	100	Vertical	Pass
3	194.997	12.64	-25.60	43.5	30.86	Peak	265.00	200	Vertical	Pass
4	355.435	17.37	-21.72	46.0	28.63	Peak	31.00	100	Vertical	Pass
5	590.660	25.07	-15.40	46.0	20.93	Peak	168.00	200	Vertical	Pass
6	878.895	30.55	-9.68	46.0	15.45	Peak	360.00	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 MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

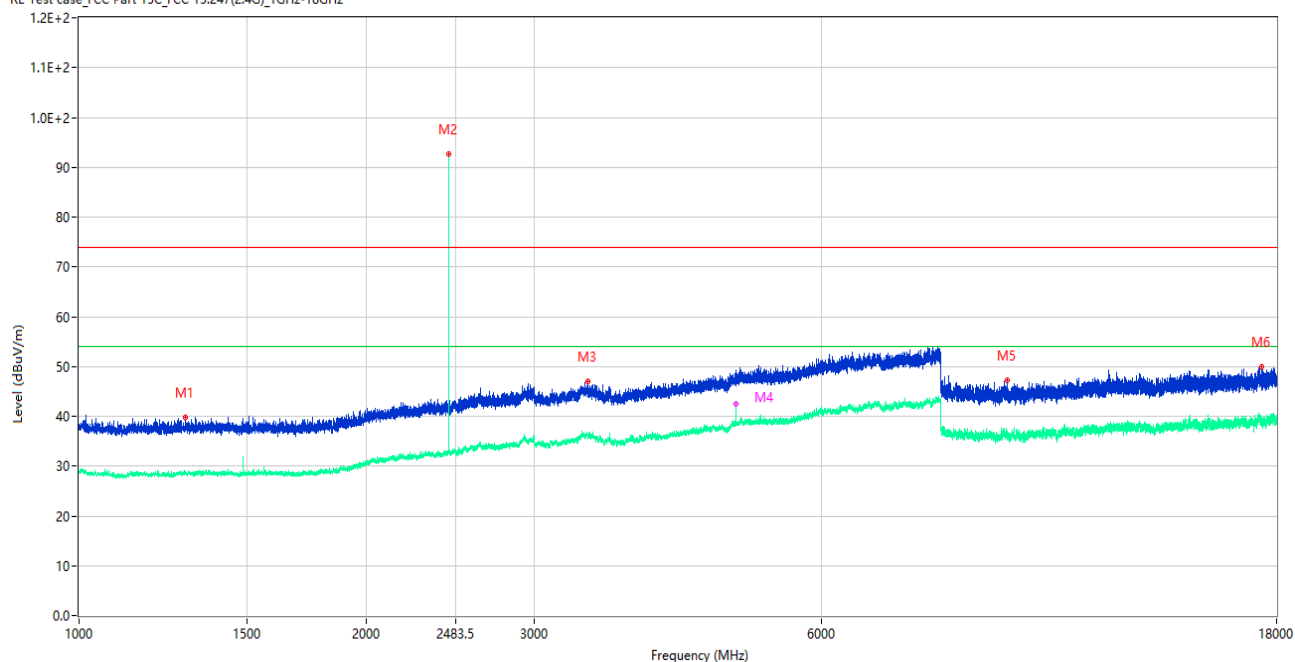
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1356.750	39.93	-15.82	74.0	34.07	Peak	345.00	150	Horizontal	Pass
1**	1356.750	28.94	-15.82	54.0	25.06	AV	345.00	150	Horizontal	Pass
2	2440.750	105.94	-12.38	74.0	-31.94	Peak	64.00	150	Horizontal	N/A
2**	2440.750	104.47	-12.38	54.0	-50.47	AV	64.00	150	Horizontal	N/A
3	2996.500	46.71	-8.80	74.0	27.29	Peak	0.00	150	Horizontal	Pass
3**	2996.500	35.99	-8.80	54.0	18.01	AV	0.00	150	Horizontal	Pass
4	4882.000	52.89	-2.31	74.0	21.11	Peak	215.00	150	Horizontal	Pass
4**	4882.000	50.09	-2.31	54.0	3.91	AV	215.00	150	Horizontal	Pass
5	8656.500	46.79	-5.53	74.0	27.21	Peak	156.00	150	Horizontal	Pass
5**	8656.500	36.41	-5.53	54.0	17.59	AV	156.00	150	Horizontal	Pass
6	14862.000	50.07	-1.11	74.0	23.93	Peak	360.00	150	Horizontal	Pass
6**	14862.000	38.38	-1.11	54.0	15.62	AV	360.00	150	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

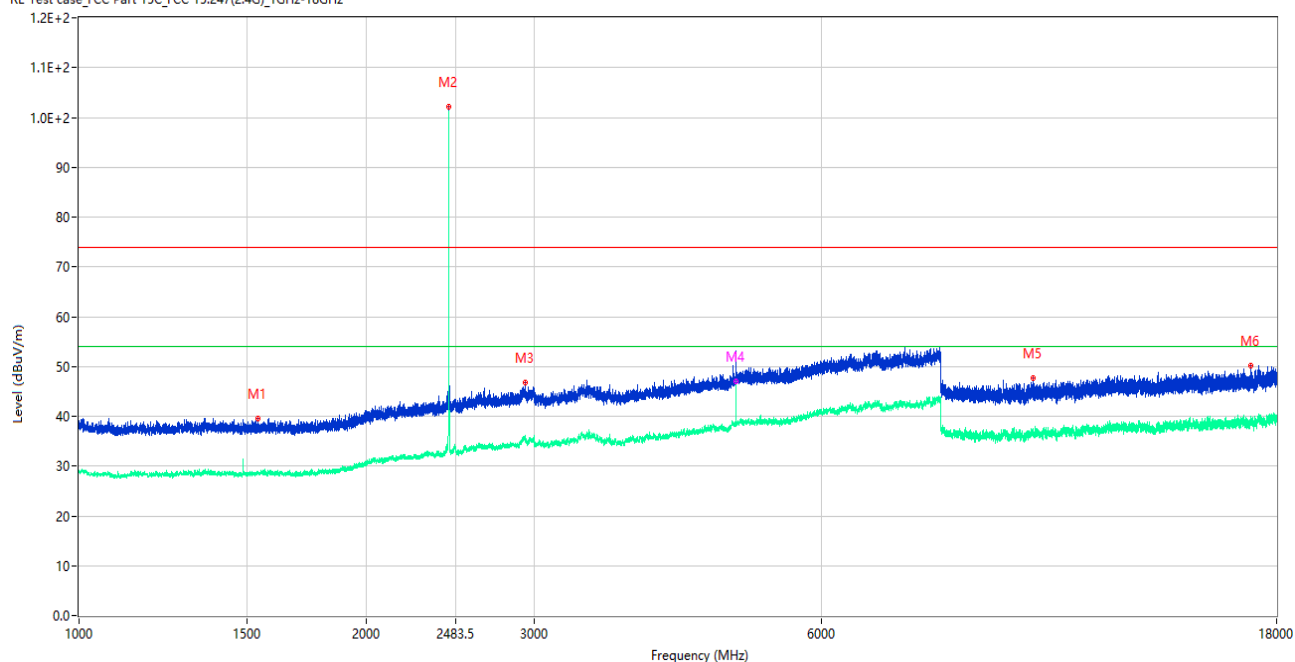
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1294.000	39.69	-15.75	74.0	34.31	Peak	320.00	150	Vertical	Pass
1**	1294.000	28.46	-15.75	54.0	25.54	AV	320.00	150	Vertical	Pass
2	2440.750	92.71	-12.38	74.0	-18.71	Peak	80.00	150	Vertical	N/A
2**	2440.750	91.24	-12.38	54.0	-37.24	AV	80.00	150	Vertical	N/A
3	3412.000	46.90	-5.29	74.0	27.10	Peak	317.00	150	Vertical	Pass
3**	3412.000	36.09	-5.29	54.0	17.91	AV	317.00	150	Vertical	Pass
4	4882.000	47.82	-2.31	74.0	26.18	Peak	256.00	150	Vertical	Pass
4**	4882.000	42.38	-2.31	54.0	11.62	AV	256.00	150	Vertical	Pass
5	9385.500	47.19	-4.54	74.0	26.81	Peak	88.00	150	Vertical	Pass
5**	9385.500	36.41	-4.54	54.0	17.59	AV	88.00	150	Vertical	Pass
6	17346.501	50.05	0.18	74.0	23.95	Peak	349.00	150	Vertical	Pass
6**	17346.501	38.80	0.18	54.0	15.20	AV	349.00	150	Vertical	Pass

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

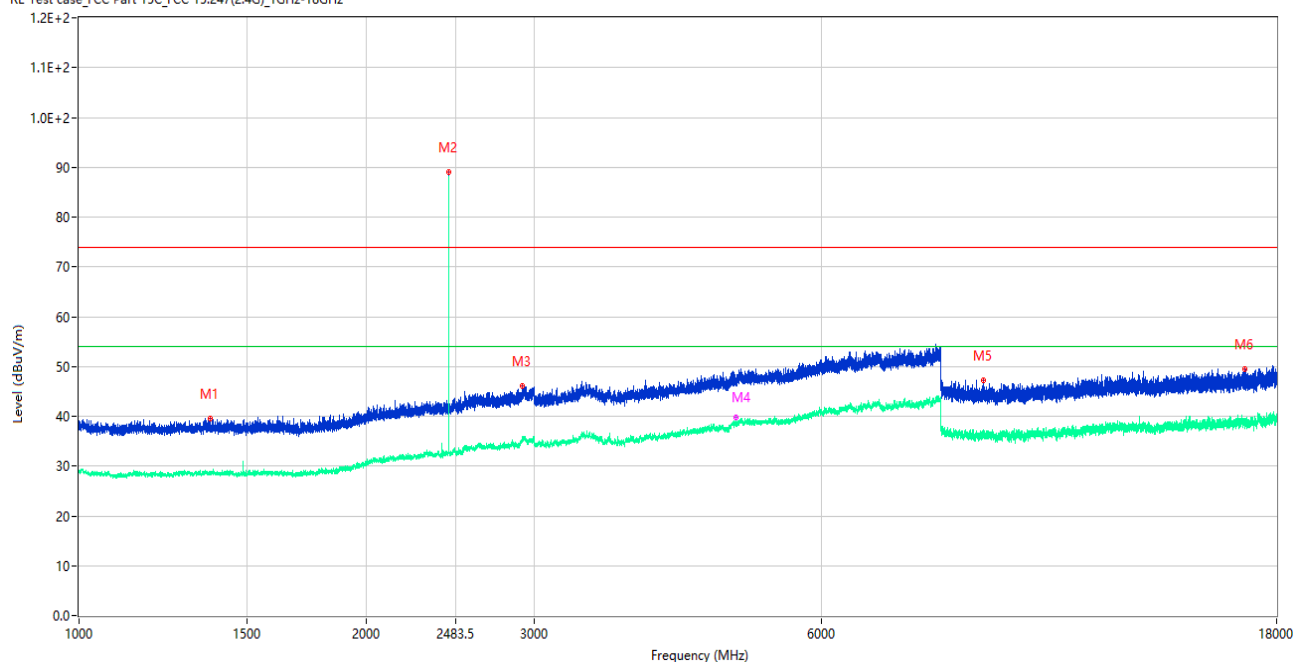
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1538.500	39.54	-16.07	74.0	34.46	Peak	31.00	150	Horizontal	Pass
1**	1538.500	28.55	-16.07	54.0	25.45	AV	31.00	150	Horizontal	Pass
2	2440.750	102.11	-12.38	74.0	-28.11	Peak	142.00	150	Horizontal	N/A
2**	2440.750	98.58	-12.38	54.0	-44.58	AV	142.00	150	Horizontal	N/A
3	2937.000	46.72	-8.26	74.0	27.28	Peak	142.00	150	Horizontal	Pass
3**	2937.000	35.27	-8.26	54.0	18.73	AV	142.00	150	Horizontal	Pass
4	4883.000	49.78	-2.31	74.0	24.22	Peak	182.00	150	Horizontal	Pass
4**	4883.000	47.01	-2.31	54.0	6.99	AV	182.00	150	Horizontal	Pass
5	9997.500	47.71	-4.01	74.0	26.29	Peak	212.00	150	Horizontal	Pass
5**	9997.500	36.82	-4.01	54.0	17.18	AV	212.00	150	Horizontal	Pass
6	16910.500	50.08	-0.52	74.0	23.92	Peak	155.00	150	Horizontal	Pass
6**	16910.500	39.13	-0.52	54.0	14.87	AV	155.00	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	1371.750	39.51	-15.96	74.0	34.49	Peak	126.00	150	Vertical	Pass
1**	1371.750	28.50	-15.96	54.0	25.50	AV	126.00	150	Vertical	Pass
2	2441.000	89.00	-12.39	74.0	-15.00	Peak	332.00	150	Vertical	N/A
2**	2441.000	87.47	-12.39	54.0	-33.47	AV	332.00	150	Vertical	N/A
3	2912.500	46.09	-9.19	74.0	27.91	Peak	192.00	150	Vertical	Pass
3**	2912.500	35.20	-9.19	54.0	18.80	AV	192.00	150	Vertical	Pass
4	4882.500	47.24	-2.31	74.0	26.76	Peak	167.00	150	Vertical	Pass
4**	4882.500	39.84	-2.31	54.0	14.16	AV	167.00	150	Vertical	Pass
5	8870.500	47.24	-4.64	74.0	26.76	Peak	89.00	150	Vertical	Pass
5**	8870.500	36.47	-4.64	54.0	17.53	AV	89.00	150	Vertical	Pass
6	16659.000	49.50	-1.53	74.0	24.50	Peak	60.00	150	Vertical	Pass
6**	16659.000	39.24	-1.53	54.0	14.76	AV	60.00	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 C63.10-2020, 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: All antenna were tested, but only the worst case has been reported in this report.

Test Data and Plots

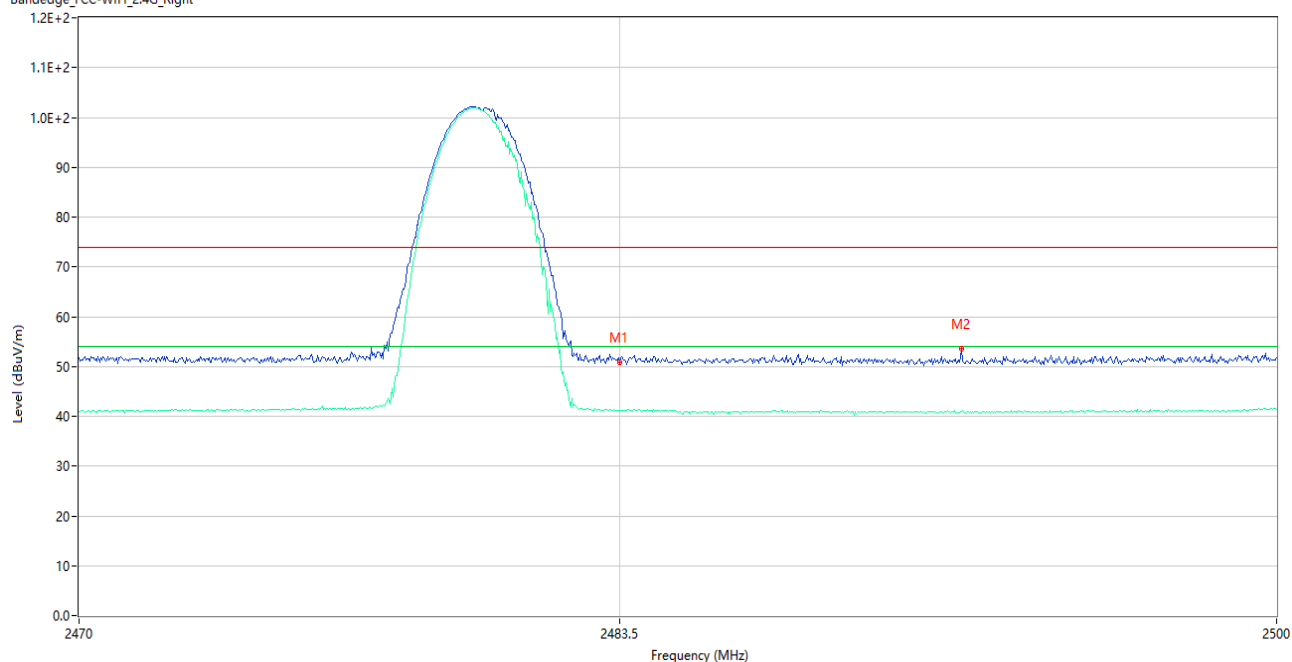
GFSK LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	50.67	-4.87	74.0	23.33	Peak	87.35	150	Horizontal	Pass
1**	2390.000	40.35	-4.87	54.0	13.65	AV	87.35	150	Horizontal	Pass
2	2372.300	52.59	-4.08	74.0	21.41	Peak	193.00	150	Horizontal	Pass
2**	2372.300	40.88	-4.08	54.0	13.12	AV	193.00	150	Horizontal	Pass

GFSK HIGH CHANNEL

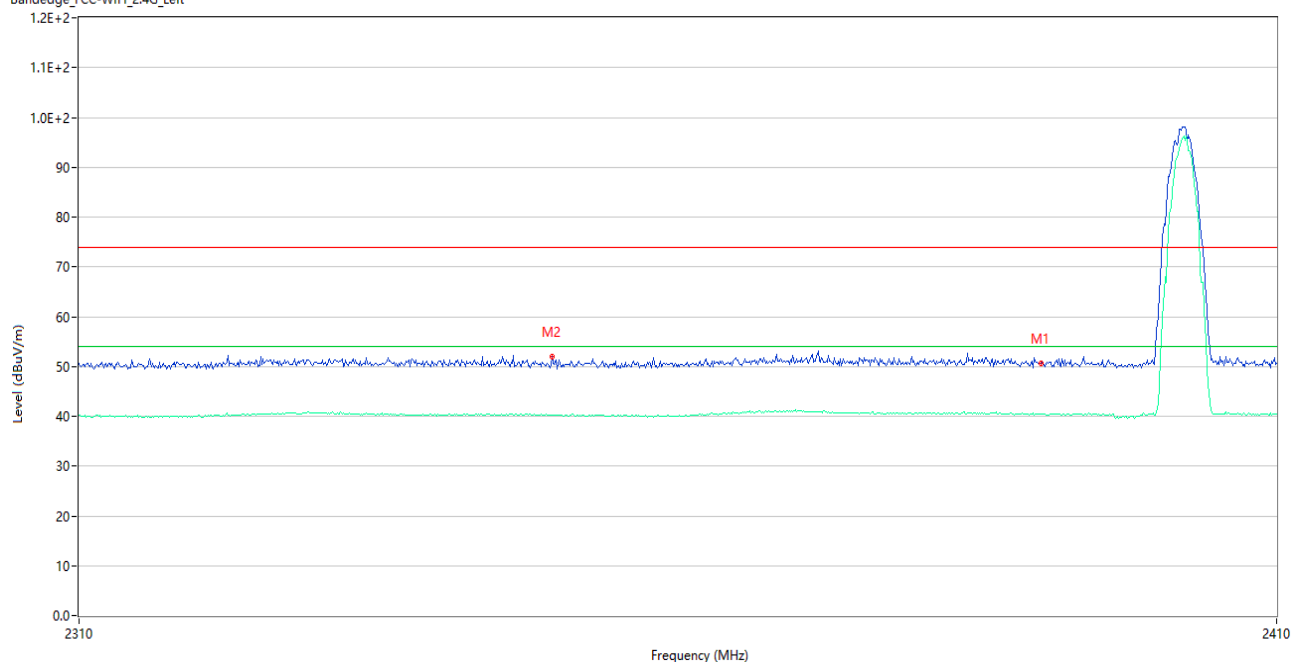
Bandedge_FCC-WIFI_2.4G_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	50.93	-3.78	74.0	23.07	Peak	93.00	150	Horizontal	Pass
1**	2483.500	41.19	-3.78	54.0	12.81	AV	93.00	150	Horizontal	Pass
2	2492.080	53.51	-3.87	74.0	20.49	Peak	0.00	150	Horizontal	Pass
2**	2492.080	40.82	-3.87	54.0	13.18	AV	0.00	150	Horizontal	Pass

8-DPSK LOW CHANNEL

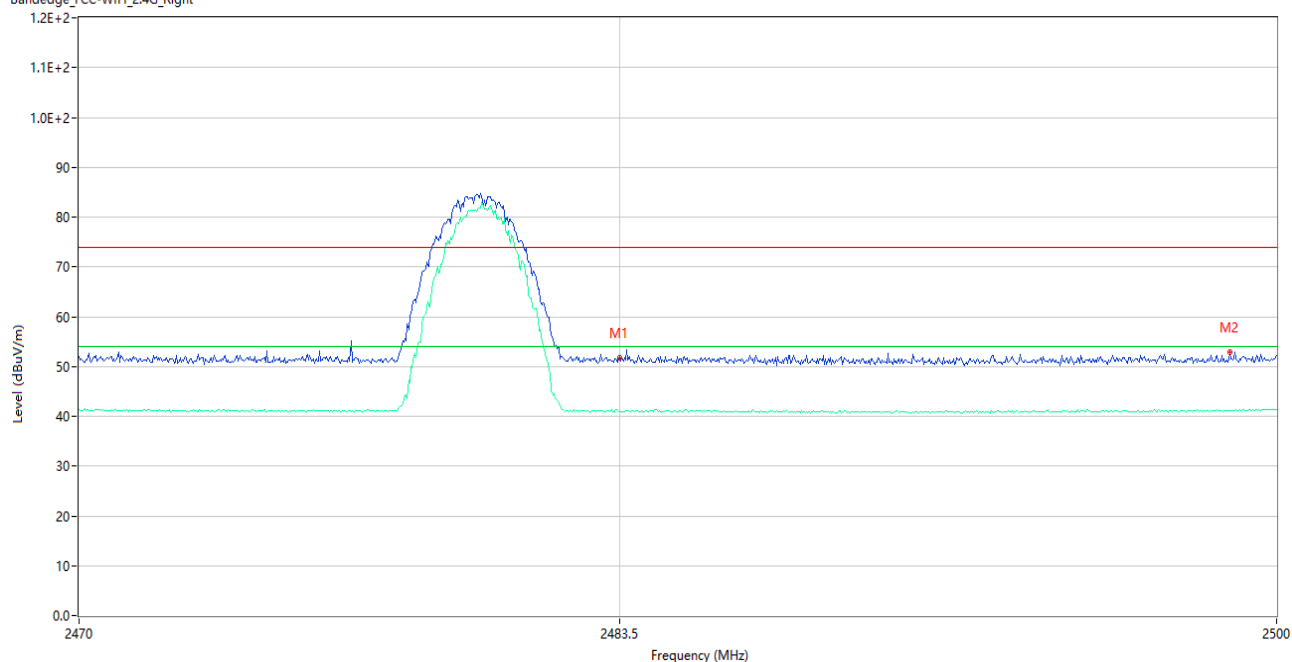
Bandedge_FCC-WIFI_2.4G_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	50.58	-4.87	74.0	23.42	Peak	292.94	150	Horizontal	Pass
1**	2390.000	40.48	-4.87	54.0	13.52	AV	292.94	150	Horizontal	Pass
2	2349.000	51.87	-4.97	74.0	22.13	Peak	215.00	150	Horizontal	Pass
2**	2349.000	40.30	-4.97	54.0	13.70	AV	215.00	150	Horizontal	Pass

8-DPSK HIGH CHANNEL

Bandedge_FCC-WIFI_2.4G_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	51.68	-3.78	74.0	22.32	Peak	100.00	150	Vertical	Pass
1**	2483.500	41.13	-3.78	54.0	12.87	AV	100.00	150	Vertical	Pass
2	2498.830	52.94	-3.98	74.0	21.06	Peak	360.00	150	Vertical	Pass
2**	2498.830	41.14	-3.98	54.0	12.86	AV	360.00	150	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH25A1131-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH25A1131-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH25A1131-AI.PDF”.

Statement

1. The Testing Center guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.
3. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the test report stamp.
4. The test data and results are only valid for the tested samples provided by the customer.
5. This report shall not be partially reproduced without the written permission of the Testing Center.
6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--